

# **Annotated Bibliography of Source Water Protection Materials**

EPA 816-C-03-003

June 2003

U.S. EPA  
Office of Ground Water and Drinking Water  
Drinking Water Protection Division  
Prevention Branch



# Building EPA's Annotated Bibliography of Source Water Materials *NEW on CD*



## Summer 2003 Version

**Many of the entries** in the bibliography were developed or funded by EPA. EPA is seeking additional information on resource materials to expand the current the bibliography.

- Source water protection
- Clean Water Act/Safe Drinking Water Act Integration
- Source water protection benefits
- Public participation
- Funding protection
- Best Management Practices
- Underground Injection Control Program

The bibliography will be expanded to include additional resource materials.

## Types of Resource Materials

The Bibliography has the following types of materials:

- fact sheets
- reports
- articles
- guides
- videos
- brochures
- case studies
- regulations
- web pages

## Citations

Details for each entry include the type of document, originator, date published, target audience, whether funded or produced by EPA, where to obtain a copy, and a brief summary.

The CD contains three formats: MS Word, WordPerfect, and PDF with search functions to locate information.

## Source Water Subjects

The bibliography has information on the following subjects:

## Phases of Bibliography

Many of the resource materials included in the summer 2003 version were developed or funded by EPA's Office of Ground Water and Drinking Water. EPA intends to release a second version that will include more materials from other governmental agencies and not-for-profit organizations. Resource materials will be reviewed prior to incorporating them.

Ultimately, it will be converted to a searchable database on the EPA Source Water Website.

## Future Updates

As with any information tool, this bibliography will require periodic updating. EPA is committed to establishing a procedure for updating it on a regular basis.

## Call for Materials

If you have materials to be considered for the bibliography, either send them or a website electronically to Marjorie Copeland at [copeland.jori@epa.gov](mailto:copeland.jori@epa.gov).

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[www.epa.gov/safewater](http://www.epa.gov/safewater)

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## **INTRODUCTION**

On the following pages is a comprehensive list of available materials on source water protection (SWP). The documents are organized by subject area. Within each subject area, materials are classified as technical materials, outreach materials, or programmatic guidance. Programmatic guidance provides direction and priorities for actions. Technical guidance provides detailed instruction on tools to assist program implementation. Outreach documents provide key information for stakeholders on program and technical information. For each, the title, type of document, publication date, authoring organization, and document number (if available), availability (as of May 2003), publication date, format (e.g., report or brochure), and key terms are presented. You can search by the subjects below or by keyword. A list of key terms are presented on the following page. Each entry has information on how to obtain the resource material. For EPA materials obtainable from the National Service Center for Environmental Publications (NSCEP), contact NSCEP at:

U.S. Environmental Protection Agency  
National Service Center for Environmental Publications (NSCEP)  
P.O. Box 42419  
Cincinnati, OH 45242  
Telephone: (800) 490-9198  
FAX: (513) 489-8695

The list contains 183 unique entries. Because many items fit into more than one subject area, there is duplication in the list below.

Listings in the bibliography are not necessarily endorsed by EPA, rather they reflect available materials on an array of source water related subjects.

## KEY TERMS

*The bibliography may be queried by phrases including these key terms:*

Wellhead Protection Guidelines  
Wellhead Protection Area Delineation  
SSA Designation  
Sole Source Aquifer Designation  
Implementing Wellhead Protection  
Wellhead Protection Examples  
Funding Wellhead Protection  
Source Water Assessment Program  
Source Water Assessments  
Funding Source Water Assessments  
Public Participation  
Enhances State Assessment  
Source Water Protection Guidelines  
Implementing Source Water Protection  
Source Water Protection Examples  
Source Water Protection Benefits  
Funding Source Water Protection  
Program Status  
Education and Training Materials  
Underground Injection Control Regulations  
Media Information on Source Water Protection  
Clean Water Act/Safe Drinking Water Act Integration  
Watersheds and Source Water Protection  
Other EPA Programs and Source Water Protection

To search on the key word topics (or any terms in the bibliography), use the Acrobat Reader "Find" function found under the menu Edit > Find, or by typing [CTRL]-F. Any word in the bibliography document is searchable in this manner; however, the assigned key terms reflect the most relevant topics addressed in each item.

## **SOURCE WATER ASSESSMENT**

*Includes the following topics: Source Water Assessment Program, Source Water Assessments, Enhances State Assessment*

### *Technical Materials*

**Technical Assistance Document (TAD) for Delineating "Other Sensitive Ground Water Areas"**. Program Guide. 2000. Office of Ground Water and Drinking Water, EPA 816-R-00-016; EPA Developed/Funded: Yes. Available at: [http://www.epa.gov/safewater/uic/tad\\_sensitive\\_gw.pdf](http://www.epa.gov/safewater/uic/tad_sensitive_gw.pdf). Audience: U.S. EPA Regions, States, Tribes. *Topics covered:* Source Water Assessments.

This TAD provides State and Regional Underground Injection Control programs with guidance on how to identify and delineate "other sensitive ground water areas" (OSGWAs). Exercising the option to identify and incorporate these OSGWAs can be of great benefit in targeting a State's resources and strengthening the overall approach to comprehensive drinking water source protection.

**Source Water Assessment Using Geographic Information Systems**. Guide. 2000. Office of Research and Development, EPA 600-R-00-067; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/ORD/NRMRL/wswrd/gis.htm>. Audience: Local Officials, Water Suppliers, U.S. EPA Regions, States, Tribes. *Topics covered:* Source Water Assessment Program, Source Water Assessments.

This document provides guidance to states, municipalities, and public water utilities for assessing source waters using geographic information system (GIS) technology. The GIS platforms can be used to organize, analyze, and manipulate available data and generate new data for source water protection areas, as well as provide capabilities for presenting the data to the public in various forms, including maps and tables. Included as appendices to this document are three case studies demonstrating the use of selected GIS-based software and hydrologic models to conduct hypothetical source water evaluations.

**Delineation of Source Water Protection Areas: A Discussion for Managers; Part I, A Conjunctive Approach for Ground Water and Surface Water**. Program Guide. 1997. Office of Ground Water and Drinking Water, EPA 816-R-97-012; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Local Officials, Water Suppliers, EPA Regions, States, Tribes. *Topics covered:* Wellhead Protection Area Delineation, Source Water Assessment Program, Source Water Assessments.

This document provides combined ground-and-surface water delineation approaches to assist states in determining the areas that should be assessed, in order to include those areas that need heightened management of contaminant sources. The first part of this document presents protection area boundary

delineation approaches and methods, while the second part presents case studies demonstrating the developments of Source Water Protection Areas, extended Source Water Protection Areas and Source Water Protection Area segments in the Nanticoke-Blackwater Basins in Maryland and Delaware.

**Drinking Water Contaminant Source Index.** Guide. 1998. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/swp/intro4.html>. Audience: Business, Local Officials, General Public, Water Suppliers, U.S. EPA Regions, States, Tribes. *Topics covered:* Source Water Assessment Program, Source Water Assessments, Contamination Sources.

EPA has compiled a drinking water contaminant source index which identifies activities that may use, produce, or release the substances listed as national primary drinking water standards and secondary drinking water standards, as well as Cryptosporidium. The two-part index contains both a Drinking Water Contaminant Index, which links contaminants with potential sources, and a Potential Source Index, which provides an alphabetical list of sources and the contaminants that are likely to be associated with, generated by, disposed of, or stored at that source.

**Source Water Protection: A Training Manual for Communities in Nicaragua.** Guide. 2002. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/protect/tmcn.pdf>. Audience: Local Officials, Water Suppliers, U.S. EPA Regions, States. *Topics covered:* Source Water Assessment Program, Source Water Protection Guidelines, Implementing Source Water Protection, Education and Training Materials.

This manual was used in several training sessions in Nicaragua to assist communities in the development of their Source Water Protection (SWP) Programs. This document is based on the United States Source Water Protection Program, but in this manual, that program is significantly modified to be useful in Nicaragua, and likely other countries in Central America. The major topics in the document are: water quality and community health, benefits from Source Water Protection, delineation of Source Water Protection areas, developing a community source water management plan, public participation, case studies, and innovative and alternative technologies.

**Federal Index of Information Relevant to Source Water Assessment and Protection.** Guide. 2002. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/protect/feddata.html>. Audience: Business, Local Officials, General Public, Water Suppliers, U.S. EPA Regions, States, Tribes. *Topics covered:* Source Water Assessment Program, Source Water Protection Guidelines, Implementing Source Water Protection, Source Water Protection Examples, Clean Water Act/Safe Drinking Water Act Integration, Watersheds and Source Water Protection.

This Federal Agency Data Index provides access to information relevant to source water assessment and protection efforts from the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, Transportation, EPA, FEMA, Tennessee Valley Authority, U.S.P.S, and Farm\*A\*Syst\*Home\*A\*Syst.

**Volunteer Stream Monitoring: A Methods Manual.** Guide. 1997. Office of Ground Water and Drinking Water, EPA 841-B-97-003; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/volunteer/stream/stream.pdf>. Audience: Local Officials. *Topics covered:* Source Water Assessment Program, Implementing Source Water Protection, Watersheds and Source Water Protection.

This document describes the role of state volunteer monitoring programs and discusses how managers can best organize, implement, and maintain volunteer programs. This manual builds on the concepts discussed in the guide for state managers and applies them directly to streams and rivers.

**Delineation of Source-Water Protection Areas in Karst Aquifers of the Ridge and Valley and Appalachian Plateaus Physiologic Provinces: Rules of Thumb for Estimating the Capture Zones of Springs and Wells.** Guide. 2002. Office of Ground Water and Drinking Water, EPA 816-R-02-015; EPA Developed/Funded: Yes. Available at: NSCEP\*; <http://www.epa.gov/safewater/protect/pdfs/karstaquifers.pdf>. Audience: Local Officials, Water Suppliers, U.S. EPA Regions, States. *Topics covered:* Wellhead Protection Area Delineation, Source Water Assessments.

Using low-cost rules of thumb (RT) approaches which may be utilized by ground-water technical personnel, this document helps to delineate the approximate capture zones for springs and public water-supply wells in Karst aquifers in areas of the Appalachian Mountains. These RT approaches may be more accurate than fixed-radius approaches and EPA urges Appalachian states to consider using them in their source-water assessments.

**State Methods for Delineating Source Water Protection Areas for Surface Water Supplied Sources of Drinking Water.** Guide. 1997. Office of Ground Water and Drinking Water, EPA 816-R-97-008; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Local Officials, U.S. EPA Regions, States, Tribes. *Topics covered:* Wellhead Protection Area Delineation, Source Water Assessments.

The EPA State Source Water Assessment and Protection Programs Guidance lays out the information that states need to provide about their program before approval, public participation requirements, and funding available through the 1997 Drinking Water State Revolving Fund. States will need to tap into expertise and information available from many sources to do the assessments. The guidance provides information on EPA, state, and other federal programs that relate to source water.



## *Outreach Materials*

**"Ground Water in the Plains, Canyonlands, and Mountains" article for Natural News.** Article. 2001. EPA Region 8, EPA 908-R-01-012; EPA Developed/Funded: Yes. Available at:

[http://www.epa.gov/region08/community\\_resources/steward/estnatural/nnewsfall01.PDF](http://www.epa.gov/region08/community_resources/steward/estnatural/nnewsfall01.PDF).

Audience: Local Officials, General Public, U.S. Forest Service, U.S. National Park Service, Bureau of Indian Affairs, U.S. Department of Agriculture, U.S. Air Force, U.S. Army Corps of Engineers, Department of Energy, U.S. Fish & Wildlife, OSM, U.S. Geological Survey, Bureau of Land Management. *Topics covered:* Source Water Assessment Program, Source Water Assessments, Implementing Source Water Protection, Promotes Source Water Protection Benefits, Clean Water Act/Safe Drinking Water Act Integration.

Update on the status of a summary of the status of groundwater in the states of Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming, written by the Source Water/Ground Water Unit in EPA Region 8.

**Protecting Drinking Water: Workbook for Tribes.** Program Guide. 2000. WEF, # 5065; EPA Developed/Funded: Yes. Available at: <http://www.water-ed.org/specialprojects.asp#tribalbook>. Audience: Tribes. *Topics covered:* Source Water Assessment Program, Source Water Assessments, Source Water Protection Guidelines, Implementing Source Water Protection, Promotes Source Water Protection Benefits, Education and Training Materials.

This publication includes background information on the importance of protecting source water surface water and groundwater from pollution and includes a step-by-step workplan for Tribes interested in developing a protection plan for their drinking water. The workbook is designed to serve as a template for such programs, with forms and tables for photocopying. It also offers a simplified approach for assessment and protection that focuses on identifying and managing immediate contamination threats.

**Overview to Watershed Assessment: Tools for Local Stakeholders.** Guide. 2001. U.S. EPA, Office of Water Management, EPA 832-B-01-004; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/owm/mtb/watershed-assessment/tocont.pdf>. Audience: Local Officials, Water Suppliers, States, Tribes, Federal Agencies. *Topics covered:* Source Water Assessment Program, Watersheds and Source Water Protection.

This set of guidelines was designed to assist local stakeholders in conducting watershed assessments and in preparing watershed management plans by providing recommendations to the EPA on regulatory and non regulatory options for control of wet weather discharges in a flexible, cost-effective manner, consistent with the Clean Water Act. This document reflects the work of the Urban Wet Weather Flows Federal Advisory Committee and is made available by

the EPA's Office of Wastewater Management to assist the user community in implementing wet weather control regulations and policies.

**A Guide to Federal Environmental Requirements for Small Governments.** Report. 1993. Office of Ground Water and Drinking Water, EPA 270-K-93-001; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local Officials, States, Tribes. *Topics covered:* Wellhead Protection Guidelines, Source Water Assessment Program, Public Participation, Source Water Protection Guidelines, Education and Training Materials, Explains Underground Injection Control Regulations.

This document was produced by the EPA Office of Regional Operations and State/Local Relations. It is a reference handbook intended to help local officials become familiar with EPA requirements that may apply to their jurisdictions.

**An Introduction to Drinking Water Source Assessment and Protection: Workshop Guide and Participant Materials.** Guide. 1999. GWF; EPA Developed/Funded: No. Available at: [http://www.groundwater.org/SWAP/SWAP\\_title\\_page.htm](http://www.groundwater.org/SWAP/SWAP_title_page.htm). Audience: Local Officials, General Public, Water Suppliers, States, Tribes. *Topics covered:* Source Water Assessment Program, Source Water Protection Guidelines, Education and Training Materials.

These online materials are both for the presenters and participants of the "An Introduction to Drinking Water Source Assessment and Protection" Workshop. The workshop guide can be used to educate community members about: Requirements of the 1996 Safe Drinking Water Act Amendments; How states develop plans for source water assessment and what to look for in those plans; and how community members can get involved in the source water assessment and protection process on the local level.

**Consider the Source: A Pocket Guide to Protecting Your Drinking Water: Drinking Water Pocket Guide #3.** Guide. 2002. Office of Ground Water and Drinking Water, EPA 816-K-02-002; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Business, Local Officials, General Public. *Topics covered:* Source Water Assessment Program, Funding Source Water Assessment, Implementing Source Water Protection, Funding Source Water Protection.

The Guide is third in a series of pocket-sized outreach and assistance publications from EPA's Office of Ground Water and Drinking Water (OGWDW) designed to heighten public awareness of the importance of protecting source waters used for drinking water. The guide includes steps towards source water protection awareness, and discusses Safe Drinking Water Act history, vocabulary, regulations, and available tools, contacts, and resources. It briefly discusses Underground Injection Control and Best Management Practice issues related to the Safe Drinking Water Act and Source Water Assessment and Protection Program.

**Source Water Assessment and Protection Program.** Web page. 2003. EPA Region 8 Source Water/Ground Water Team; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/region8/water/swap/>. Audience: General Public, States, Tribes. *Topics covered:* Source Water Assessment Program, Source Water Protection Guidelines.

The EPA Region 8 gateway web page for the source water assessment and protection programs (SWAP) contains an overview of SWAP information and links relevant topics and on-line documents.

**Community Involvement in Drinking Water Source Assessments.** Fact Sheet. 2000. Office of Ground Water and Drinking Water, EPA 816-F-00-025; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Local Officials, General Public, Water Suppliers, States, Tribes. *Topics covered:* Source Water Assessments, Public Participation, Enhances State Assessment.

This fact sheet explains the four steps of source water assessments and how communities can utilize assessment information to protect their local sources of drinking water.

**Drinking Water Quality in Indian Country: Protecting Your Sources.** Fact Sheet. 2000. Office of Ground Water and Drinking Water, EPA 816-F-00-005; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/protect/tribe/fact.pdf> Audience: Tribes. *Topics covered:* Source Water Assessments, Implementing Source Water Protection.

The fact sheet discusses ways Tribal water supply operators can protect drinking water sources, including source assessment and post-assessment steps. Outlines threats to drinking water and solutions. Includes a list of resources for tribes.

### *Programmatic Guidance*

**State Source Water Assessment and Protection Program Final Guidance.** Program Guide. 1997. Office of Ground Water and Drinking Water, EPA 816-R-97-009; EPA Developed/Funded: Yes. Available at: NSCEP\* and <http://www.epa.gov/safewater/swp/swappg.html>. Audience: Business, Local Officials, General Public, Water Suppliers, U.S. EPA Regions, States, Tribes. *Topics covered:* Source Water Assessment Program, Source Water Assessments, Source Water Protection Guidelines.

The guidance addresses the law's requirement that States identify the areas that are sources of public drinking water, assess water systems' susceptibility to contamination, and inform the public of the results.

**EPA Memo on Disclosure of Locational Information in CCRs and Source Water Assessments: "Sensitive Data in Consumer Confidence Reports and Source Water**

**Assessments".** Guide. 2001. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/protect/sensitivedwdata.html>. Audience: U.S. EPA Regions, States. *Topics covered:* Source Water Assessment Program, Source Water Assessments.

Memo to water management division directors in all regions encouraging states and PWSs to protect drinking water supplies through all appropriate means. CCR and source water assessment to remain available to the public. Outlines the balance between security of PWSs and public information regarding Source Water Protection.

**Source Water Information in Consumer Confidence Reports - EPA Guidance: State Implementation Guidance for the CCR Rule.** Web page. 2001. Office of Ground Water and Drinking Water, EPA 816-R-99-088; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/protect/ccrappx.pdf>. Audience: Water Suppliers, States. *Topics covered:* Source Water Assessment Program, Security.

This document provides guidance for States on implementation of the CCR rule, information on Source Water Assessment Programs (SWAPs) and Susceptibility Determinations, and provides more detailed information on State SWAP programs, wellhead protection programs and other source water information resources.

## **SOURCE WATER PROTECTION**

*Includes the following topics: Source Water Protection Guidelines , Implementing Source Water Protection Source Water Protection Examples , Promoting Source Water Protection Benefits*

*Technical Materials*

**Training Materials on Source Water Protection BMP Practices.** Web page. 2002. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/dwa/electronic/ematerials.html#SWP>; <http://www.epa.gov/safewater/protect/swpbull.html>. Audience: Business, Local Officials, General Public, Water Suppliers, U.S. EPA Regions, States, Tribes. *Topics covered:* Implementing Source Water Protection, Promotes Source Water Protection Benefits, Best Management Practices, Education and Training Materials, Explains Underground Injection Control Regulations.

Many of EPA's source water protection training materials are available for download at these web sites. EPA has developed training materials on best management practices (BMPs) and other measures for protecting drinking water supplies. The materials are divided into two parts: a training module in Microsoft PowerPoint format at <http://www.epa.gov/safewater/dwa/electronic.html> and a

series of more detailed source water protection "practices bulletins" by specific potential contaminant sources.

**Source Water Protection: A Training Manual for Communities in Nicaragua.**

Guide. 2002. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/protect/tmcn.pdf>. Audience: Local Officials, Water Suppliers, U.S. EPA Regions, States. *Topics covered:* Source Water Assessment Program, Source Water Protection Guidelines, Implementing Source Water Protection, Education and Training Materials.

This manual was used in several training sessions in Nicaragua to assist communities in the development of their Source Water Protection (SWP) Programs. This document is based on the United States Source Water Protection Program, but in this manual, that program is significantly modified to be useful in Nicaragua, and likely other countries in Central America. The major topics in the document are: water quality and community health, benefits from Source Water Protection, delineation of Source Water Protection areas, developing a community source water management plan, public participation, case studies, and innovative and alternative technologies.

**Introduction to EPA's Drinking Water Source Protection Programs.** Web page.

2002. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/dwa/electronic/presentations/swp/swp.pdf>. Audience: Local Officials, Water Suppliers, U.S. EPA Regions, States, Tribes. *Topics covered:* Source Water Protection Guidelines.

This EPA Drinking Water Academy module provides an overview of one aspect of drinking water programs with a very strong connection to watershed management: the protection of potential groundwater and surface water sources for potable water supplies. In particular the module emphasizes state and local protection for source water areas and describes how these relate to the Safe Drinking Water Act and the Clean Water Act.

**Federal Index of Information Relevant to Source Water Assessment and Protection**

Guide. 2002. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/protect/feddata.html>. Audience: Business, Local Officials, General Public, Water Suppliers, U.S. EPA Regions, States, Tribes. *Topics covered:* Source Water Assessment Program, Source Water Protection Guidelines, Implementing Source Water Protection, Source Water Protection Examples, Clean Water Act/Safe Drinking Water Act Integration, Watersheds and Source Water Protection.

This Federal Agency Data Index provides access to information relevant to source water assessment and protection efforts from the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior,

Transportation, EPA, FEMA, Tennessee Valley Authority, U.S.PS, and Farm\*A\*Syst/Home\*A\*Syst.

**Preliminary Data Summary: Airport Deicing Operations (Revised).** Report. 2000. U.S. EPA, EPA 821-R-00-016; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/waterscience/guide/airport/index.html>. Audience: Airports. *Topics covered:* Implementing Source Water Protection, Contamination Sources, Watersheds and Source Water Protection.

Provides information about the air transportation industry and best practices being employed for aircraft and airfield deicing operations along with information about the collection, containment, recovery, and treatment of wastewaters containing deicing agents.

**Protecting Water Quality in Urban Areas: Best Management Practices for Dealing with Storm Water Runoff.** Guide. 2000. Minnesota Pollution Control Agency; EPA Developed/Funded: No. Available at: <http://www.pca.state.mn.us/water/pubs/sw-bmpmanual.html>. Audience: Local Officials, General Public. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Watersheds and Source Water Protection.

This manual is designed to help local government officials, urban planners, developers and citizens become aware of urban nonpoint pollution problems and to provide detailed information about management practices to help prevent and control nonpoint pollution.

**Urban Best Management Practices for Nonpoint Source Pollution.** Guide. 1999. Wyoming Department of Environmental Quality; EPA Developed/Funded: No. Available at: <http://deq.state.wy.us/wqd/watershed/92171.pdf>. Audience: Industry, Local Officials, General Public. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Watersheds and Source Water Protection.

This "Best Management Practices" document is designed to provide a series of conservation practices. This document can be used as a guide for municipalities, private individuals and industries who are conducting day to day management activities in urban or suburban situations. When selected and applied properly, these urban best management practices (BMPs) will result in maintaining the existing beneficial uses of water resources and reducing adverse effects and water quality degradation.

**Storm Water Fact Sheet: Non-Storm Water Discharges to Storm Sewers.** Fact Sheet. 1999. U.S. EPA, EPA 832-F-99-022; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/npdes/pubs/nonstorm.pdf>. Audience: Industry. *Topics covered:* Implementing Source Water Protection, Watersheds and Source Water Protection.



Programs to identify and eliminate non-storm water discharges to storm sewers are an important and very cost-effective Best Management Practices for improving runoff water quality. The fact sheet discusses the applicability, advantages and disadvantages, key components, implementation and costs of these programs. A list of references and additional sources of information is provided.

**Combined Sewer Overflow Management Fact Sheet: Pollution Prevention.** Fact Sheet. 1999. Office of Ground Water and Drinking Water, EPA 832-F-99-038; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/npdes/pubs/pollutna.pdf>. Audience: Local Officials. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Contamination Sources, Watersheds and Source Water Protection.

Pollution Prevention Best Management Practices can reduce both the volume of pollutants entering a Combined Sewer System (CCS) and the number of Combined Sewer Overflows (CSOs) that occur during storm water runoff events. Specific Best Management Practices discussed are: waste reduction and recycling, commercial/Industrial pollution prevention, street cleaning, catch basin maintenance, water conservation, fertilizer and pesticide control, and erosion and sediment control at construction sites.

**Collection Systems O&M Fact Sheet: Proper Operation and Maintenance.** Fact Sheet. 1999. U.S. EPA, EPA 832-F-99-031; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/owm/mtb/sewcl.pdf>. Audience: Local Officials. *Topics covered:* Implementing Source Water Protection.

The fact sheet examines common sewer cleaning methods and discusses their applicability, advantages and disadvantages, performance, and costs. A list of references and additional sources of information are included.

**Volunteer Stream Monitoring: A Methods Manual.** Guide. 1997. Office of Ground Water and Drinking Water, EPA 841-B-97-003; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/volunteer/stream/stream.pdf>. Audience: Local Officials. *Topics covered:* Source Water Assessment Program, Implementing Source Water Protection, Watersheds and Source Water Protection.

This document describes the role of volunteer monitoring state programs and discusses how managers can best organize, implement, and maintain volunteer programs. This manual builds on the concepts discussed in the guide for state managers and applies them directly to streams and rivers.

**Watershed Protection Techniques: A Quarterly Bulletin on Urban Watershed Restoration and the Protection Tools.** Article. 1994. EPA/Center for Watershed Protection; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/owow/nps/wpt/vol1no2.html>. Audience: General Public, U.S. EPA

Regions, States, Tribes. *Topics covered:* Implementing Source Water Protection, Watersheds and Source Water Protection.

This quarterly bulletin includes features on stormwater runoff quality, urban best management practices, wetland creation and restoration, and wetland research. The bulletin also describes available resources for protecting watersheds.

**Xeriscape Landscaping: Preventing Pollution and Using Resources Wisely.**

Brochure. 1993. Office of Ground Water and Drinking Water, EPA 840-B-93-001; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Homeowners, General Public. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Watersheds and Source Water Protection.

This booklet describes xeriscaping and its many benefits, cites some successful examples, and provides a short bibliography. Xeriscaping saves water, prevents pollution, and protects the environment by employing designs and plants suited to the locale.

**"Septic Systems: Operation and Maintenance of On-site Sewage Disposal Systems" in Land and Water: Conserving Natural Resources in Illinois.** Article. 1989. Bicki, T.J. and D.G. Peterson; EPA Developed/Funded: No. Available at: <http://hermes.ecn.purdue.edu/cgi/convwqtest?lw-15.il.ascii>. Audience: Homeowners. *Topics covered:* Implementing Source Water Protection, Contamination Sources, Explains Underground Injection Control Regulations, Watersheds and Source Water Protection.

This article outlines proper operation and maintenance for on-site sewage disposal systems to ensure system longevity and to protect ground water and surface water. The document describes septic tank/soil absorption systems, types of absorption fields, and alternative systems.

**Buffer Protection and Management Ordinance, Baltimore County, MD.** Regulation. No date. Baltimore County Environmental Protection and Resource Management; EPA Developed/Funded: No. Available at: <http://www.epa.gov/owow/nps/ordinance/documents/A2a-Baltimore.pdf>. Audience: Local Officials. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Watersheds and Source Water Protection.

This ordinance notice details the criteria required of the vegetated buffer strips in Baltimore County in forested, residential, and industrial areas.

**Model Ordinances to Protect Local Resources: Storm Water Control Operation and Maintenance.** Article. No date. U.S. EPA Office of Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/owow/nps/ordinance/stormwater.htm>. Audience:



Local Officials, General Public. *Topics covered:* Implementing Source Water Protection, Watersheds and Source Water Protection.

This web page includes model ordinance language, which focuses primarily on the maintenance of stormwater best management practices. Additionally, the site provides elements of design, routine maintenance, and inspections.

**Model Ordinances to Protect Local Resources: Links.** Web page. No date. U.S. EPA Office of Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/owow/nps/ordinance/links.htm>. Audience: Local Officials, General Public. *Topics covered:* Implementing Source Water Protection.

This web page provides links to helpful resources and other real-life example ordinances to reference.

**Model Ordinances to Protect Local Resources.** Web page. No date. EPA/Center for Watershed Protection; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/owow/nps/ordinance/index.htm>. Audience: Local Officials. *Topics covered:* Implementing Source Water Protection.

This web page provides information for local governments to develop effective resource protection ordinances. The site provides model ordinances to use as a template. For each model ordinance listed, several real-life examples of ordinances and support materials (such as maintenance agreements and inspection checklists) are included.

**Pesticide Characteristics that Affect Water Quality.** Article. No date. Texas A&M, Texas Agricultural Extension Service; EPA Developed/Funded: Yes. Available at: [http://insects.tamu.edu/extension/bulletins/water/water\\_01.html](http://insects.tamu.edu/extension/bulletins/water/water_01.html). Audience: Farmers, General Public. *Topics covered:* Promotes Source Water Protection Benefits, Contamination Sources, Watersheds and Source Water Protection.

This publication outlines and explains several factors to consider when assessing a pesticide's potential for affecting water quality.

**Water Quality and Agriculture Status, Conditions, and Trends.** Report. No date. U.S. Department of Agriculture; EPA Developed/Funded: No. Available at: <http://www.nrcs.usda.gov/technical/land/pubs/wq.pdf>. Audience: Farmers. *Topics covered:* Source Water Protection Guidelines, Implementing Source Water Protection, Watersheds and Source Water Protection.

This publication documents the national and regional status of and trends in water quality from the early 1980s to the early 1990s. It sets the stage for subsequent analysis of projected resource conditions under alternative social, economic, and environmental policies.

## *Outreach Materials*

**Source Water Assessment and Protection Program** Web page. 2003. EPA Region 8 Source Water/GW Team; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/region8/water/swap/>. Audience: General Public, States, Tribes. *Topics covered:* Source Water Assessment Program, Source Water Protection Guidelines.

The EPA Region 8 gateway web page for the source water assessment and protection programs (SWAP) contains an overview of SWAP information and links relevant topics and on-line documents.

### **Case Studies of Local Source Water Protection Programs: 22 Studies Available.**

Case Study. 2002. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/protect/casesty/casestudy.html>. Audience: Local Officials, General Public, Water Suppliers. *Topics covered:* Source Water Protection Examples.

Examples of effective local Source Water Protection programs. Case studies span varying community sizes, locations, and sources of drinking water. Scroll down menu provides means of selection.

**Consider the Source: A Pocket Guide to Protecting Your Drinking Water: Drinking Water Pocket Guide #3.** Guide. 2002. Office of Ground Water and Drinking Water, EPA 816-K-02-002; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Business, Local Officials, General Public. *Topics covered:* Source Water Assessment Program, Funding Source Water Assessment, Implementing Source Water Protection, Funding Source Water Protection.

The Guide is third in a series of pocket-sized outreach and assistance publications from EPA's Office of Ground Water and Drinking Water (OGWDW) designed to heighten public awareness of the importance of protecting source waters used for drinking water. The guide includes steps towards source water protection awareness, and discusses Safe Drinking Water Act history, vocabulary, regulations, and available tools, contacts, and resources. It briefly discusses Underground Injection Control and Best Management Practice issues related to the Safe Drinking Water Act and Source Water Assessment and Protection Program.

**Protect Your Family. Test Your Well's Water Quality Today. A Guide to Water Quality Testing for Private Wells (New Hampshire specific and Massachusetts specific versions).** Brochure. 2002. EPA New England / NH DES ; EPA Developed/Funded: Yes. Available at: <http://www.state.ma.us/dep/brp/dws/files/mapwell2.pdf>. Audience: General Public. *Topics covered:* Promotes Source Water Protection Benefits, Education and Training Materials.

This pamphlet provides an overview on the importance of, how, and when of private well testing, including recommended tests and contacts information.

**"Ground Water in the Plains, Canyonlands, and Mountains" article for Natural News.** Article. 2001. EPA Region 8, EPA 908-R-01-012; EPA Developed/Funded: Yes. Available at:

[http://www.epa.gov/region08/community\\_resources/steward/estnatural/nnewsfall01.PDF](http://www.epa.gov/region08/community_resources/steward/estnatural/nnewsfall01.PDF).

Audience: Local Officials, General Public, U.S. Forest Service, U.S. National Park Service, Bureau of Indian Affairs, U.S. Department of Agriculture, U.S. Air Force, U.S. Army Corps of Engineers, Department of Energy, U.S. Fish & Wildlife, OSM, U.S. Geological Survey, Bureau of Land Management. *Topics covered:* Source Water Assessment Program, Source Water Assessments, Implementing Source Water Protection, Promotes Source Water Protection Benefits, Clean Water Act/Safe Drinking Water Act Integration

Update on the status of a summary of the status of groundwater in the states of Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming, written by the Source Water/Ground Water Unit in EPA Region 8.

**Plaistow NH Source Water Protection Plan.** Report. 2001. NRWA; EPA Developed/Funded: Yes. Available at:

<http://www.epa.gov/safewater/protect/plaistow.html>. Audience: Local Officials, General Public, Water Suppliers, Tribes. *Topics covered:* Implementing Source Water Protection, Source Water Protection Examples.

Plaistow, New Hampshire is implementing an Area-wide Source Water Protection Plan, prepared by their Committee with the assistance of the Northeast Rural Water Association. The plan encompasses 51 PWSs within the town's boundaries, all of which draw their drinking water from ground water sources. These include larger community water supplies (19) as well as smaller transient systems. In addition, many Plaistow residents are served by private wells. The plan identifies and outlines a structured approach to managing potential sources of contamination and threatening activities that occur within the Source Water Protection area.

**Drinking Water Protection Begins at Home.** Fact Sheet. 2000. Farm\*A\*Syst; EPA Developed/Funded: Yes. Available at:

<http://www.uwex.edu/farmasyst/products/nationgw.pdf>. Audience: Homeowners, General Public, U.S. EPA Regions. *Topics covered:* Implementing Source Water Protection

English and Spanish versions of a pamphlet reviewing threats to drinking water sources and household tips to drinking water pollution prevention.

**Drinking Water Quality in Indian Country: Protecting Your Sources.** Fact Sheet. 2000. Office of Ground Water and Drinking Water, EPA 816-F-00-005; EPA Developed/Funded: Yes. Available at:

<http://www.epa.gov/safewater/protect/tribe/fact.pdf>. Audience: Tribes. *Topics covered:* Source Water Assessments, Implementing Source Water Protection

The fact sheet discusses ways Tribal water supply operators can protect drinking water sources, including source assessment and post-assessment steps. Outlines threats to drinking water and solutions. Includes a list of resources for tribes.

**MTBE Farm\*A\*Syst Brochure: Drinking Water and MTBE: A Guide for Private Well Owners.** Brochure. 2000. EPA/ Farm\*A\*Syst; EPA Developed/Funded: Yes. Available at: <http://www.uwex.edu/farmandhome/wqpaap/pdf/mtbe.pdf>. Audience: Farmers, Local Officials, General Public, Water Suppliers. *Topics covered:* Implementing Wellhead Protection, Implementing Source Water Protection, Education and Training Materials.

This brochure provides private well owners with basic information about the gasoline additive chemical methyl tertiary-butyl ether (MTBE), including how to assess your household's exposure risk (checklist) and what to do if you have MTBE contamination, and how to protect your drinking water from potential MTBE pollution.

**Protecting Drinking Water: County Partnerships that Work.** Report. 2000. NACo; EPA Developed/Funded: Yes. Available at: [http://www.naco.org/Template.cfm?Section=technical\\_assistance&template=/ContentManagement/ContentDisplay.cfm&ContentID=4742](http://www.naco.org/Template.cfm?Section=technical_assistance&template=/ContentManagement/ContentDisplay.cfm&ContentID=4742). Audience: Local Officials, Water Suppliers. *Topics covered:* Implementing Source Water Protection, Source Water Protection Examples, Promotes Source Water Protection Benefits.

Profiles of counties working through watershed protection partnerships and agreements to protect their drinking water.

**Protecting Drinking Water: Workbook for Tribes.** Program Guide. 2000. WEF, # 5065; EPA Developed/Funded: Yes. Available at: <http://www.water-ed.org/specialprojects.asp#tribalbook>. Audience: Tribes. *Topics covered:* Source Water Assessment Program, Source Water Assessments, Source Water Protection Guidelines, Implementing Source Water Protection, Promotes Source Water Protection Benefits, Education and Training Materials.

This publication includes background information on the importance of protecting surface water and groundwater source water from pollution and includes a step-by-step workplan for Tribes interested in developing a protection plan for their drinking water. The workbook is designed to serve as a template for such programs, with forms and tables for photocopying. It also offers a simplified approach for assessment and protection that focuses on identifying and managing immediate contamination threats.

**Source Protection: A National Guidance Manual for Surface Water Supplies.**

Guide. 2000. NEIWPCC; EPA Developed/Funded: No. Available at: <http://www.neiwpcc.org/sp.html>. Audience: Local Officials, Water Suppliers, States, Tribes. *Topics covered:* Implementing Source Water Protection.

The manual includes new Safe Drinking Water Act requirements, information on microbial and disinfection rules, case studies from across the country, new funding and implementation assistance information, and an expanded chapter on source protection, planning, and implementation.

**A Small Town Source Water Primer.** Guide. 1999. Office of Ground Water and Drinking Water/ NCSC; EPA Developed/Funded: Yes. Available at: <http://www.lgean.org/html/whatsnew.cfm?id=58>. Audience: Local Officials, General Public, Water Suppliers. *Topics covered:* Source Water Protection Guidelines.

This guide provides information on protecting drinking water supplies, including information on how the 1996 amendments to the federal Safe Drinking Water Act (SDWA) affect this protection effort. The guide details the role of local elected and appointed officials in maintaining safe drinking water supplies, explains how to gain public support for source water protection, and examines the newly-required state source water assessment programs.

**An Introduction to Drinking Water Source Assessment and Protection: Workshop Guide and Participant Materials.** Guide. 1999. GWF; EPA Developed/Funded: Yes. Available at: [http://www.groundwater.org/SWAP/SWAP\\_title\\_page.htm](http://www.groundwater.org/SWAP/SWAP_title_page.htm). Audience: Local Officials, General Public, Water Suppliers, States, Tribes. *Topics covered:* Source Water Assessment Program, Source Water Protection Guidelines, Education and Training Materials.

These online materials are both for the presenters and participants of the "An Introduction to Drinking Water Source Assessment and Protection" Workshop. The workshop guide can be used to educate community members about: requirements of the 1996 Safe Drinking Water Act Amendments; how states develop plans for source water assessment and what to look for in those plans; and how community members can get involved in the source water assessment and protection process on the local level.

**Protecting Sources of Drinking Water: Selected Case Studies in Watershed Management.** Case Study. 1999. Office of Ground Water and Drinking Water, EPA 816-R-98-019; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/swp/swpcases.pdf>. Audience: Local Officials, General Public, Water Suppliers, States, Tribes. *Topics covered:* Implementing Source Water Protection, Source Water Protection Examples, Assess Program Status, Watersheds and Source Water Protection.

This document presents case studies of 17 drinking water systems committed to extensive efforts to incorporate source water management and protection as an integral part of their business of providing safe drinking water to their customers. The authors provide snapshots of lessons learned in implementing four aspects of source water protection: partnerships, watershed assessment, watershed land use management, and land acquisition.

**Safe Drinking Water Act, Section 1429: Ground Water Report to Congress.** Report. 1999. Office of Ground Water and Drinking Water, EPA-816-R-99-016; EPA Developed/Funded: Yes. Available at: NSCEP\*; <http://www.epa.gov/safewater/gwr/finalgw.pdf>. Audience: U.S. EPA Regions, States. *Topics covered:* Implementing Source Water Protection, Assess Program Status.

This report reviews the status and effectiveness of state ground water programs and examines our nation's approach to protecting ground water. This report presents the findings that EPA has developed in consultation with a work group of state ground water managers, the Ground Water Protection Council, the Association of State and Interstate Water Pollution Control Administrators, and the Association of State Drinking Water Administrators regarding how our federal and state ground water protection programs can more effectively prevent ground water contamination problems in the future.

**The Consequences of Urban Storm Water Pollution.** Guide. 1999. Natural Resources Defense Council. Storm Water Strategies; EPA Developed/Funded: No. Available at: <http://www.nrdc.org/water/pollution/storm/chap3.asp>. Audience: Local Officials, General Public, *Topics covered:* Source Water Protection Guidelines, Watersheds and Source Water Protection.

The stormwater case studies collected in this report describe and evaluate actually implemented stormwater control projects and programs from across the United States. All the case studies are, in at least some major way, successful. They show on a practical level that stormwater management works -- that municipalities in all regions of our country have implemented environmentally effective, economically advantageous, and politically feasible stormwater pollution measures. Chapter three reviews the environmental, economic, and community impacts of urban stormwater pollution.

**Source Water 2000 - National Center for Small Communities.** Report. 1998. NCSC; EPA Developed/Funded: Yes. Available at: [http://www.natat.org/ncsc/Pubs/Source%20Water/source\\_water\\_2000.htm](http://www.natat.org/ncsc/Pubs/Source%20Water/source_water_2000.htm). Audience: Local Officials, General Public, Water Suppliers. *Topics covered:* Implementing Source Water Protection.

This resource guide for local leaders discusses source water assessment procedures; the role that both local government and citizen groups play in water quality protection and funding initiatives; and the process through which a typical



rural water system collects, treats and distributes drinking water. The guide concludes with a summary of additional programs and strategies that will help increase public, private and community involvement in the planning and development of effective local source water protection efforts.

**Water On Tap: A Consumer's Guide to the Nation's Drinking Water.** Report. 1997. Office of Ground Water and Drinking Water, EPA B15-K-97-002; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/wot/wot.html>. Audience: General Public. *Topics covered:* Promotes Source Water Protection Benefits, Education and Training Materials.

This booklet provides answers to many questions (including: how safe is my drinking water? where does my drinking water come from, and how does it get to my home? what can I do to protect my drinking water?). It describes changes in the Safe Drinking Water Act that will make new information available to consumers in the near future. This booklet also describes more detailed sources of information to help citizens become active participants in ensuring the quality of their drinking water.

**Source Water Protection: Protecting Drinking Water Across the Nation.** Report. 1995. Office of Ground Water and Drinking Water, EPA 813-F-95-005; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Local Officials, General Public, Tribes. *Topics covered:* Source Water Protection Guidelines, Source Water Protection Examples, Promotes Source Water Protection Benefits.

This report expands the concept of wellhead protection to include surface water sources of drinking water. Source water protection is a community-based approach to protecting sources of drinking water from contamination. The document addresses the three R's of the program: restore the public's right and responsibility to protect their drinking water, raise public confidence in their drinking water supply, and reduce the costs of providing safe drinking water.

**The Clean Water State Revolving Fund: Financing America's Environmental Infrastructure -- A Report of Progress.** Report. 1995. Office of Ground Water and Drinking Water, EPA 832-R-95-001; EPA Developed/Funded: Yes. Available at: NTIS. Audience: Local Officials, U.S. EPA Regions, States, Tribes. *Topics covered:* Implementing Source Water Protection, Funding Source Water Protection, Assess Program Status, Clean Water Act/Safe Drinking Water Act Integration.

This report provides information on the accomplishments of the national Clean Water State Revolving Fund (SRF) program, the level of federal and state investment, how the program works, how communities benefit from the program, and the types of projects funded. The SRF was established under a mandate in the 1987 amendments to the Clean Water Act. Under this innovative program, states created revolving loan funds to provide independent and permanent sources of

low-cost financing for a range of environmental infrastructure projects. By 1995, all fifty states and Puerto Rico had set up SRF programs.

**A Guide to Federal Environmental Requirements for Small Governments.** Report. 1993. Office of Ground Water and Drinking Water, EPA 270-K-93-001; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local Officials, States, Tribes. *Topics covered:* Wellhead Protection Guidelines, Source Water Assessment Program, Public Participation, Source Water Protection Guidelines, Education and Training Materials, Explains Underground Injection Control Regulations.

This document was produced by the EPA Office Of Regional Operations and State/Local Relations. It is a reference handbook intended to help local officials become familiar with EPA requirements that may apply to their jurisdictions.

**Nonpoint Source Pollution - Runoff of Rain and Snowmelt, Our Biggest Water Quality Problem.** Article. 1991. Office of Ground Water and Drinking Water, EPA 841-N-91-100; EPA Developed/Funded: Yes. Available at: U.S. EPA History Office - 2822T 1200 Pennsylvania Avenue, NW Washington, DC 20460 (202) 566-1472. Audience: Teachers, General Public. *Topics covered:* Implementing Source Water Protection, Watersheds and Source Water Protection, U.S. National Park Service Program.

This article, from the EPA Journal (Nov./Dec. 1991. Vol. 17, no. 5), extensively covers the nonpoint source pollution issues. Included in the article are topics ranging from the problems to actions that individuals can take around the home.

**Crosscurrents: The Water We Drink.** Report. 1989. LWV; EPA Developed/Funded: Yes. Available at: \$4.95 from: League of Women Voters, 1730 M Street NW, Washington, DC 20036 (202) 429-1965. Audience: General Public. *Topics covered:* Implementing Source Water Protection, Education and Training Materials.

This document details the results of surveys from nearly 600 local water utility officials and 49 state drinking water administrators. The survey asked state drinking water administrators and local water utility officials to gauge the impact of the 1986 Safe Drinking Water Act amendments. Ninety-eight percent of local utility respondents reported trihalomethane levels below the then-current EPA standards. However, 25% of those utilities exceeded more stringent standards expected to be imposed in the future. One-third of local utilities felt that current rate structures were inadequate to fund needed capital improvements needed.

**Backyard Conservation: Bringing Conservation from the Countryside to your Backyard.** Fact Sheet. No date. U.S. Department of Agriculture; EPA Developed/Funded: No. Available at: <http://www.nrcs.usda.gov/feature/backyard/>. Audience: Homeowners, General Public. *Topics covered:* Implementing Source Water



Protection, Promotes Source Water Protection Benefits, Education and Training Materials, Conservation.

This Natural Resources Conservation Service program shows you how conservation practices that are used on agricultural land across the country to conserve and improve natural resources can be adapted for use on the land around your home. Ten conservation practices have been scaled down into tip sheets offering "how to" steps and helpful hints for homeowners and city residents to use in their yards.

**Drinking Water Pollution Prevention and Public Health: A Matrix for Disease Prevention and Environmental Protection.** Fact Sheet. No date. National Association of County and City Health Officials, 742-F-97-004; EPA Developed/Funded: No. Available at: <http://www.epa.gov/oppt/library/pdfs/drinkwaterpublichealth.pdf>. Audience: Local Officials, General Public. *Topics covered:* Promotes Source Water Protection Benefits.

This fact sheet helps local health officials understand how environmental factors affect health. It also provides strategies for protecting public health and the environment by safeguarding the nation's water supply. This fact sheet clarifies the relationship between pollution prevention, drinking water, and public health.

**Newsletter - Notes from Underground.** Article. No date. EPA Region 9; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/region09/water/underground/notes/>. Audience: Local Officials, General Public, Water Suppliers, States, Tribes. *Topics covered:* Wellhead Protection Guidelines, SSA Designation, Wellhead Protection Examples, Source Water Protection Guidelines, Education and Training Materials, Explains Underground Injection Control Regulations.

This newsletter is published by EPA Region 9's Ground Water Office. Its purpose is to bring information about source water protection, underground injection control, and related compliance and public water supply issues to injection well operators, the public water supply industry, other regulators, and the general public.

**Non-Point Pollution Prevention--Homeowner.** Guide. No date. South Jersey Resource Conservation and Development Council; EPA Developed/Funded: No. Available at: <http://www.sjrccd.org/ce/erosion3.htm>. Audience: Homeowners, General Public. *Topics covered:* Implementing Source Water Protection, Watersheds and Source Water Protection.

These management measures are intended to prevent and reduce nonpoint source pollutant loadings generated from a variety of activities within urban areas and not addressed by other management measures. The document describes everyday

activities that have the potential to contribute to nonpoint source pollutant loadings.

**Poison in the Grass: The Hazards and Consequences of Lawn Pesticides.** Report. No date. Toxic Alert; EPA Developed/Funded: No. Available at: [http://www.eisc.ca/poison\\_in\\_the\\_grass.htm](http://www.eisc.ca/poison_in_the_grass.htm). Audience: Homeowners, General Public, *Topics covered:* Promotes Source Water Protection Benefits, Contamination Sources, Education and Training Materials.

This document reports facts about the use of lawn chemicals and pesticides. It addressed questions about safety hazards and environmental consequences.

**Pollution Prevention Fact Sheet: Animal Waste Collection.** Fact Sheet. No date. The Center for Watershed Protection, Storm Water Manager's Resource Center; EPA Developed/Funded: No. Available at: <http://www.extension.iastate.edu/polk/water/learning/petwaste.pdf>. Audience: Homeowners, General Public. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Education and Training Materials, Watersheds and Source Water Protection.

This fact sheet pinpoints animal waste collection as a pollution source. The presence of pet waste in stormwater runoff has a number of implications for urban stream water quality (especially, with regard to fecal bacteria. Control of this waste involves a combination of educational outreach and enforcement practices to encourage residents to clean up after their pets.

**Steps for Maintaining Healthy Lawns and Quality Waters.** Web page. No date. University of Wisconsin Extension; EPA Developed/Funded: No. Available at: <http://clean-water.uwex.edu/pubs/stewards/Y001.pdf>. Audience: Homeowners. *Topics covered:* Implementing Source Water Protection, Watersheds and Source Water Protection.

This fact sheet for yard care activities addresses methods for preventing pollution impacts on the quality of nearby lake waters.

**Tapping Your Own Resources: A Decision-Maker's Guide for Small Town Drinking Water.** Guide. No date. National Center for Small Communities; EPA Developed/Funded: Yes. Available at: <http://www.natat.org/ncsc/Pubs/Environment2.htm>. Audience: Local Officials. *Topics covered:* Public Participation, Source Water Protection Guidelines, Implementing Source Water Protection, Education and Training Materials.

This guide is intended for small system owners and managers who are seeking to understand the flexibility available under the Safe Drinking Water Act amendments. The focus is on decision-making, not technology; delegation of responsibilities, not operational details; and reliance on self-help and technical

assistance initiatives before seeking outside funding for managing systems that can continue to supply safe, affordable drinking water for most small and rural communities.

### *Programmatic Guidance*

**National Management Measures to Control Nonpoint Source Pollution from Agriculture.** Guide. 2000. North Carolina State University Water Quality Group ; EPA Developed/Funded: No. Available at: <http://www.epa.gov/owow/nps/agmm/>. Audience: Farmers, Local Officials, States, Tribes. *Topics covered:* Source Water Protection Guidelines, Implementing Source Water Protection, Watersheds and Source Water Protection, U.S. National Park Service Program.

This document is a final draft technical guidance and reference document for use by State, local, and Tribal managers in the implementation of nonpoint source pollution management programs. It contains information on the best available, economically achievable means of reducing pollution of surface and ground water from agriculture.

**Preliminary Data Summary of Urban Stormwater Best Management Practices.** Report. 1999. Office of Ground Water and Drinking Water, EPA 821-R-99-012; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/ost/stormwater/>. Audience: Business, Local Officials. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Watersheds and Source Water Protection.

This report, conducted by OST's engineering and analysis division, summarizes existing information and data regarding the effectiveness of best management practices (BMPs) to control and reduce pollutants in urban storm water. The study provides a synopsis of what is currently known about the expected costs and environmental benefits of Best Management Practices, and identifies information gaps as well. Parsons Engineering Science, Inc, Limno-tech, Inc. and the Center for Watershed Protection helped prepare this document.

**Enforceable State Mechanisms for the Control of Nonpoint Source Water Pollution.** Report. 1997. OWOW/ Environmental Law Institute, X-825472-01; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/owow/nps/elistudy/>. Audience: States. *Topics covered:* Source Water Protection Guidelines, Implementing Source Water Protection, Watersheds and Source Water Protection.

This study examined the laws of the fifty states, Puerto Rico, and the District of Columbia to identify and analyze enforceable mechanisms for the control of nonpoint source water pollution. The study found many enforceable mechanisms in state law, and also found that there is great variability in such authorities. In the absence of any federal legislative or regulatory norm, the states have exhibited great diversity in their legislation. This report demonstrates the great diversity of state legislation imposing enforceable mechanisms. It identifies the kinds of

responses that state and federal decision makers can draw upon in filling gaps and dealing with remaining water quality problems in the nonpoint source context.

**State Source Water Assessment and Protection Program Final Guidance.** Program Guide. 1997. Office of Ground Water and Drinking Water, EPA 816-R-97-009; EPA Developed/Funded: Yes. Available at: NSCEP\* and <http://www.epa.gov/safewater/swp/swappg.html>. Audience: Business, Local Officials, General Public, Water Suppliers, U.S. EPA Regions, States, Tribes. *Topics covered:* Source Water Assessment Program, Source Water Assessments, Source Water Protection Guidelines.

The guidance addresses the law's requirement that States identify the areas that are sources of public drinking water, assess water systems' susceptibility to contamination, and inform the public of the results.

**Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters.** Guide. 1993. Office of Ground Water and Drinking Water, EPA 840-B-92-002; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/OWOW/NPS/MMGI/index.html>. Audience: Local officials, States. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Watersheds and Source Water Protection.

This manual provides definitions and descriptions of management measures for agriculture, forestry, urban areas, marinas and recreational boating, channel modification, erosion control, wetlands, and vegetated treatment systems. It also provides techniques to monitor water quality.

**Storm Water Management for Industrial Activities: Developing Pollution Prevention Plans and BMPs.** Guide. 1992. U.S. EPA, Office of Wastewater Management, EPA 832-R-92-006; EPA Developed/Funded: Yes. Available at: [http://cfpub.epa.gov/npdes/pkeyword.cfm?keywords=Storm+Water+Management+for+Industrial+Activities&program\\_id=0](http://cfpub.epa.gov/npdes/pkeyword.cfm?keywords=Storm+Water+Management+for+Industrial+Activities&program_id=0). Audience: Industry, Local Officials, States. *Topics covered:* Source Water Protection Guidelines, Implementing Source Water Protection.

This document provides industrial facilities with comprehensive guidance on developing stormwater pollution prevention plan (SWPPP) requirements for industrial (non-construction) activity under the NPDES Storm Water Program. The guide includes worksheets, checklists, and a sample Stormwater pollution prevention plan. The document also identifies appropriate Best Management Practices.

## **BEST MANAGEMENT PRACTICES**

### *Technical Materials*

**Training Materials on Source Water Protection Best Management Practice Practices.** Web page. 2002. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/dwa/electronic/ematerials.html#SWP>; <http://www.epa.gov/safewater/protect/swpbull.html>. Audience: Business, Local Officials, General Public, Water Suppliers, U.S. EPA Regions, States, Tribes. *Topics covered:* Implementing Source Water Protection, Promotes Source Water Protection Benefits, Best Management Practices, Education and Training Materials, Explains Underground Injection Control Regulations.

Many of EPA's source water protection training materials are available for download at these web sites. EPA has developed training materials on best management practices (Best Management Practices) and other measures for protecting drinking water supplies. The materials are divided into two parts: a training module in Microsoft PowerPoint format at <http://www.epa.gov/safewater/dwa/electronic.html> and a series of more detailed source water protection "practices bulletins" by specific potential contaminant sources.

**Protecting Water Quality in Urban Areas: Best Management Practices for Dealing with Storm Water Runoff.** Guide. 2000. Minnesota Pollution Control Agency; EPA Developed/Funded: No. Available at: <http://www.pca.state.mn.us/water/pubs/sw-bmp-manual.html>. Audience: Local Officials, General Public. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Watersheds and Source Water Protection.

This manual is designed to help local government officials, urban planners, developers and citizens become aware of urban nonpoint pollution problems and to provide detailed information about management practices to help prevent and control nonpoint pollution.

**Urban Best Management Practices for Nonpoint Source Pollution.** Guide. 1999. Wyoming Department of Environmental Quality; EPA Developed/Funded: No. Available at: <http://deq.state.wy.us/wqd/watershed/92171.pdf>. Audience: Industry, Local Officials, General Public. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Watersheds and Source Water Protection.

This "Best Management Practices" document is designed to provide a series of conservation practices. This document can be used as a guide for municipalities, private individuals and industries who are conducting day to day management activities in urban or suburban situations. When selected and applied properly, these urban best management practices (BMPs) will result in maintaining the existing beneficial uses of water resources and reducing adverse effects and water quality degradation.

**Combined Sewer Overflow Management Fact Sheet: Pollution Prevention** Fact Sheet. 1999. Office of Ground Water and Drinking Water, EPA 832-F-99-038; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/npdes/pubs/pollutna.pdf>. Audience: Local Officials. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Contamination Sources, Watersheds and Source Water Protection.

Pollution Prevention Best Management Practices can reduce both the volume of pollutants entering a Combined Sewer System (CCS) and the number of Combined Sewer Overflows (CSOs) that occur during storm water runoff events. Specific Best Management Practices discussed are: waste reduction and recycling, commercial/Industrial pollution prevention, street cleaning, catch basin maintenance, water conservation, fertilizer and pesticide control, and erosion and sediment control at construction sites.

**Xeriscape Landscaping: Preventing Pollution and Using Resources Wisely.** Brochure. 1993. Office of Ground Water and Drinking Water, EPA 840-B-93-001; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Homeowners, General Public. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Watersheds and Source Water Protection.

This booklet describes xeriscaping and its many benefits, cites some successful examples, and provides a short bibliography. Xeriscaping saves water, prevents pollution, and protects the environment by employing designs and plants suited to the locale.

**Buffer Protection and Management Ordinance, Baltimore County, MD.** Regulation. No date. Baltimore County Environmental Protection and Resource Management; EPA Developed/Funded: No. Available at: <http://www.epa.gov/owow/nps/ordinance/documents/A2a-Baltimore.pdf>. Audience: Local Officials. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Watersheds and Source Water Protection.

This ordinance notice details the criteria required of the vegetated buffer strips in Baltimore County in forested, residential, and industrial areas.

**Reducing the Risk of Ground Water Contamination by Improving Pesticide Storage and Handling.** Article. No date. Texas A&M, Texas Agricultural Extension Service; EPA Developed/Funded: No. Available at: <http://soilcrop.tamu.edu/publications/pubs/b6025.pdf>. Audience: Farmers. *Topics covered:* Wellhead Protection Guidelines, Implementing Wellhead Protection, Best Management Practices.

This guide addresses proper pesticide management as an important tool in preventing ground water contamination. It provides pollution prevention information for the following areas: pesticide storage, mixing and loading



practices, spill clean up, container disposal, other management practices. The document also provides an evaluation table and pesticide leachability charts.

**Reducing the Risk of Ground Water Contamination by Improving Fertilizer Storage and Handling.** Article. No date. Texas Agricultural Extension Service; EPA Developed/Funded: No. Available at: <http://soilcrop.tamu.edu/publications/pubs/b6026.pdf>. Audience: Farmers. *Topics covered:* Wellhead Protection Guidelines, Implementing Wellhead Protection, Best Management Practices.

This bulletin addresses that effects of improper fertilizer handling on ground water. Problems occur when nitrogen seeps through the soil and into ground water. The document emphasizes pollution prevention and covers the following topics: building new storage facilities; modifying existing facilities; mixing and loading practices; spills and container disposal; other management factors. The document also provides an evaluation table for analyzing specific facilities.

#### *Outreach Materials*

**What Role Does Your Business Have in Protecting Drinking Water Sources?** Guide. 2000. U.S. EPA, New England (Region 1), EPA-901-F-00-001; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/region1/eco/drinkwater/pdfs/sourcewater.pdf>. Audience: Business, General Public. *Topics covered:* Best Management Practices, Contamination Sources, Watersheds and Source Water Protection.

This brochure is written for businesses and explains the Source Water Assessment Program and how it may relate to businesses. It includes common sense tips for minimizing negative drinking water impacts from business activities is included.

**Best Management Practices for Protecting Groundwater.** Fact sheet. 1992. Office of Ground Water and Drinking Water, EPA 570-9-91-036; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf>. Audience: Business, Local Officials, Water Suppliers, States, Tribes. *Topics covered:* Implementing Wellhead Protection, Best Management Practices.

This series of fact sheets lists best management practices (BMPs) developed for 12 facilities and industries. The Best Management Practices focus on well closure and alternative disposal methods.

**Pollution Prevention Fact Sheet: Animal Waste Collection.** Fact Sheet. No date. The Center for Watershed Protection, Storm Water Manager's Resource Center; EPA Developed/Funded: No. Available at: <http://www.extension.iastate.edu/polk/water/learning/petwaste.pdf>. Audience: Homeowners, General Public. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Education and Training Materials, Watersheds and Source Water Protection.

This fact sheet pinpoints animal waste collection as a pollution source. The presence of pet waste in stormwater runoff has a number of implications for urban stream water quality (especially, with regard to fecal bacteria. Control of this waste involves a combination of educational outreach and enforcement practices to encourage residents to clean up after their pets.

### *Programmatic Guidance*

#### **Preliminary Data Summary of Urban Stormwater Best Management Practices.**

Report. 1999. Office of Ground Water and Drinking Water, EPA 821-R-99-012; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/ost/stormwater/>. Audience: Business, Local Officials. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Watersheds and Source Water Protection.

This report, conducted by OST's engineering and analysis division, summarizes existing information and data regarding the effectiveness of best management practices (BMPs) to control and reduce pollutants in urban storm water. The study provides a synopsis of what is currently known about the expected costs and environmental benefits of Best Management Practices, and identifies information gaps as well. Parsons Engineering Science, Inc, Limno-tech, Inc. and the Center for Watershed Protection helped prepare this document.

**Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters.** Guide. 1993. Office of Ground Water and Drinking Water, EPA 840-B-92-002; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/OWOW/NPS/MMGI/index.html>. Audience: Local officials, States. *Topics covered:* Implementing Source Water Protection, Best Management Practices, Watersheds and Source Water Protection.

This manual provides definitions and descriptions of management measures for agriculture, forestry, urban areas, marinas and recreational boating, channel modification, erosion control, wetlands, and vegetated treatment systems. It also provides techniques to monitor water quality.

## **WELLHEAD PROTECTION**

*Includes the following topics:* Wellhead Protection Guidelines, **Wellhead Protection Area Delineation, SSA Designation, Implementing Wellhead Protection, Wellhead Protection Examples**

### *Technical Materials*

**Potential Sources of Drinking Water Contamination Index.** Web page. 2003. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at:



<http://www.epa.gov/safewater/swp/intro4.html>. Audience: States, Tribes. *Topics covered:* Wellhead Protection Guidelines, Contamination Sources.

This chart lists some potential facilities and activities where one might find the contaminants controlled by primary and secondary drinking water standards. A listed contaminant does not always occur at the associated source, nor does the list encompass all contaminants that may be present. Sources are divided into four major categories: Commercial/Industrial, Residential Municipal, Agricultural/Rural, Miscellaneous (Underground Injection Control/Naturally Occurring). This list is intended as a resource guide for creating a state or community-specific inventory list, based on local industrial activity and known contaminant occurrence information.

**Notice of Final Decision on Motor Vehicle Waste Disposal Wells in EPA Region 8; Underground Injection Control (UIC) Class V Program.** Article. 2002. EPA Region 8 Ground Water Program, FRL-7221-1; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/fedrgstr/EPA-WATER/2002/June/Day-04/w13699.htm>. Audience: Business, Local Officials, General Public, U.S. EPA Regions, U.S. Forest Service, U.S. National Park Service, Bureau of Indian Affairs, U.S. Department of Agriculture, U.S. Air Force, U.S. Army Corps of Engineers, Department of Energy, U.S. Fish & Wildlife, OSM, U.S. Geological Survey, Bureau of Land Management. *Topics covered:* Wellhead Protection Area Delineation, Implementing Wellhead Protection, Wellhead Protection Examples, Public Participation, Explains Underground Injection Control Regulations, Media Information on Source Water Protection, Clean Water Act/Safe Drinking Water Act Integration, Watersheds and Source Water Protection.

EPA's Federal Register Notice announcing the decision under which each motor vehicle waste disposal well in Colorado, Montana, or South Dakota (regardless of whether it is in Indian country) or in Indian country in North Dakota, Utah, or Wyoming must either be closed or covered by a Class V Underground Injection Control (UIC) permit application no later than January 1, 2007.

**Delineation of Source Water Protection Areas in Karst Aquifers of the Ridge and Valley and Appalachian Plateaus Physiologic Provinces: Rules of Thumb for Estimating the Capture Zones of Springs and Wells.** Guide. 2002. Office of Ground Water and Drinking Water, EPA 816-R-02-015; EPA Developed/Funded: Yes. Available at: NSCEP\*; <http://www.epa.gov/safewater/protect/pdfs/karstaquifers.pdf>. Audience: Local Officials, Water Suppliers, U.S. EPA Regions, States. *Topics covered:* Wellhead Protection Area Delineation, Source Water Assessments.

Using low-cost rules of thumb (RT) approaches for ground-water technical personnel, this document helps to delineate the approximate capture zones for springs and public water-supply wells in karst aquifers in areas of the Appalachian Mountains. These RT approaches may be more accurate than fixed-radius approaches and U.S. EPA urges Appalachian states to consider using them in their source water assessments.

**Literature Review of Methods for Delineating Wellhead Protection Areas.** Report. 1998. Office of Ground Water and Drinking Water, EPA 816-R-98-021; EPA Developed/Funded: Yes. Available at: NSCEP\* and <http://www.epa.gov/safewater/swp/wellhead/dewell.html>. Audience: Local Officials, Water Suppliers, U.S. EPA Regions, States, Tribes. *Topics covered:* Wellhead Protection Area Delineation

This document presents an annotated bibliography of recent publications addressing technical aspects of wellhead protection area delineation. Topics include theory, case studies, land use, geographic information systems (GIS), hydrogeologic analysis and numerical modeling.

**State Methods for Delineating Source Water Protection Areas for Surface Water Supplied Sources of Drinking Water.** Guide. 1997. Office of Ground Water and Drinking Water, EPA 816-R-97-008; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Local Officials, U.S. EPA Regions, States, Tribes. *Topics covered:* Wellhead Protection Area Delineation, Source Water Assessments.

The *EPA State Source Water Assessment and Protection Programs Guidance* lays out the information that states need to submit to U.S. EPA about their program for approval. Drinking Water State Revolving Fund states will need to tap into expertise and information available from many sources to do the assessments. The guidance provides information on EPA, state, and other federal programs that relate to source water.

**Delineation of Source Water Protection Areas: A Discussion for Managers; Part I, A Conjunctive Approach for Ground Water and Surface Water.** Program Guide. 1997. Office of Ground Water and Drinking Water, EPA 816-R-97-012; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Local Officials, Water Suppliers, U.S. EPA Regions, States, Tribes. *Topics covered:* Wellhead Protection Area Delineation, Source Water Assessment Program, Source Water Assessments.

This document provides combined ground-and-surface water delineation approached to assist states in determining the areas that should be assessed, in order to include those areas that need heightened management of contaminant sources. The first part of this document presents protection area boundary delineation approaches and methods, while the second part presents case studies demonstrating the developments of Source Water Protection Areas, extended Source Water Protection Areas and Source Water Protection Area segments in the Nanticoke-Blackwater Basins in Maryland and Delaware.

**Applicability of Wellhead Protection Area Delineation to Domestic Wells: A Case Study.** Case Study. 1996. Office of Ground Water and Drinking Water, EPA 813-B-95-007; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local Officials, States,

Tribes. *Topics covered:* Wellhead Protection Guidelines, Wellhead Protection Area Delineation.

Wellhead protection for a community supplied by numerous private wells requires a different approach than that for wellhead protection of individual privately owned wells. Before developing a private wellhead protection plan, a community should consider its protection goals and determine if a wellhead protection program will help attain them. This document presents one such plan and its development.

**Groundwater Sampling - A Workshop Summary, Dallas, TX.** Report. 1995. Office of Ground Water and Drinking Water, EPA 600-R-94-205; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/swrust1/cat/gwwkshop.pdf>. Audience: General Public, U.S. EPA Regions, States, Tribes. *Topics covered:* Implementing Wellhead Protection, Education and Training Materials.

This document provides a summary of the Ground Water Sampling Workshop in Dallas, Texas, held on November 30 - December 2, 1993. The primary objective of the conference was to provide a forum for discussing recent research findings on ground water sampling. Participants in the workshop included government and non-government researchers, practitioners, regulators, and policy makers.

**Wellhead Protection in Confined, Semi-Confined, Fractured, and Karst Aquifer Settings.** Program Guide. 1993. Office of Ground Water and Drinking Water, EPA 813-K-93-001; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local Officials, States, Tribes. *Topics covered:* Wellhead Protection Guidelines, Implementing Wellhead Protection.

This fact sheet provides background information on the need to define protection areas for wells that draw public drinking water from several complex hydrogeologic settings: confined, semi-confined, fractured, and karst aquifers. These settings include aquifers in which the ground water is not open to the atmosphere (i.e., the aquifer does not consist of unconsolidated porous media). Protection areas around wells that draw from confined, fractured, and karst aquifers are (because of their complex hydrogeology) more difficult to define than protection areas for wells in porous media settings.

**Guide for Conducting Contaminant Source Inventories for Public Drinking Water Supplies: Technical Assistance Document.** Guide. 1991. Office of Ground Water and Drinking Water, EPA 570-9-91-033; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Local Officials, Water Suppliers, States, Tribes. *Topics covered:* Wellhead Protection Area Delineation, Contamination Sources

This technical assistance document assists state and local water managers in developing and refining methods and procedures for inventorying existing and

potential sources of contamination within wellhead protection areas. The document discusses the design, structure, and function of contaminant source inventories. The document includes detailed discussions of contaminant sources and methodologies for identifying these sources; suggestions for managing information collected on these sources; and practical use of the information to protect public drinking water supplies. The document also contains case studies of contaminant source inventories.

**Wellhead Protection Strategies for Confined Aquifer Settings.** Guide. 1991. Office of Ground Water and Drinking Water, EPA 570-9-91-008; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Local Officials, Water Suppliers, States, Tribes. *Topics covered:* Implementing Wellhead Protection.

This document provides methods for defining the sensitivity of an aquifer to contamination. This is accomplished by first determining the degree of confinement of an aquifer. The document also provides approaches for delineating wellhead protection areas for highly confined and semi-confined aquifers. Two case studies are also provided.

**Regional Assessment of Aquifer Vulnerability and Sensitivity in the Conterminous U.S. Report.** 1991. Office of Ground Water and Drinking Water, EPA 600-2-91-043; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: U.S. EPA Regions, States, Tribes. *Topics covered:* Wellhead Protection Guidelines.

The report provides a general representation of ground water vulnerability, precipitation distribution, population density, potential well yield, and aquifer sensitivity for each of the 48 conterminous states. The report presents an aquifer classification scheme based on vulnerability assessments of surficial and relatively shallow aquifers. Aquifer sensitivity is related to the potential for contamination; therefore, aquifers with a high degree of vulnerability and are in areas of high population density are considered to be the most sensitive.

**Delineations of Wellhead Protection Areas in Fractured Rocks.** Program Guide. 1991. Office of Ground Water and Drinking Water, EPA 570-9-91-009; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Local Officials, Water Suppliers, States, Tribes. *Topics covered:* Wellhead Protection Area Delineation.

This report was prepared by the Wisconsin Geological and Natural History Survey under an agreement with the EPA. The report evaluates methods for wellhead protection area delineation in unconfined fractured rock aquifers. Methods evaluated were applicable to fractured-rock settings in Wisconsin and to similar settings around the U.S.

**A Review of Methods for Assessing Nonpoint Source Contaminated Ground Water Discharge to Surface Water.** Report. 1991. Office of Ground Water and Drinking

Water, EPA 570-9-91-010; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: U.S. EPA Regions, States, Tribes. *Topics covered:* Wellhead Protection Guidelines, Wellhead Protection Area Delineation, Watersheds and Source Water Protection.

This document provides an overview of selected methods that have been used for assessing nonpoint source contaminated ground water discharging to surface water. EPA undertook this project in response to the growing awareness that contaminated ground water discharge is a significant source of nonpoint source contaminant loading to surface water in many parts of the country.

**Model Assessment for Delineating Wellhead Protection Areas.** Program Guide. 1988. Office of Ground Water and Drinking Water, EPA 440-6-88-002; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local Officials, Water Suppliers, States, Tribes. *Topics covered:* Wellhead Protection Area Delineation.

This report provides information on 64 existing ground water flow and contaminant fate and transport models. Detailed descriptions of each model are presented. These models may be used for delineating wellhead protection areas.

**Septic Systems and Groundwater Protection: A Program Manager's Guide and Reference Book.** Guide. 1986. Office of Ground Water and Drinking Water, EPA 440-6-86-006; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Business, Local Officials, General Public. *Topics covered:* Wellhead Protection Guidelines, Contamination Sources, Explains Underground Injection Control Regulations.

This document describes in detail the major issues state and local managers must address in protecting ground water through management and control. It provides program options and regulatory language from existing septic system management programs. The document is designed to provide information concerning effective septic system management to officials responsible for developing state or local codes.

**Reducing the Risk of Ground Water Contamination by Improving Pesticide Storage and Handling.** Article. No date. Texas A&M, Texas Agricultural Extension Service; EPA Developed/Funded: No. Available at: <http://soilcrop.tamu.edu/publications/pubs/b6025.pdf>. Audience: Farmers. *Topics covered:* Wellhead Protection Guidelines, Implementing Wellhead Protection, Best Management Practices.

This guide addresses proper pesticide management as an important tool in preventing ground water contamination. It provides pollution prevention information for the following areas: pesticide storage, mixing and loading

practices, spill clean up, container disposal, and other management practices. The document also provides an evaluation table and pesticide leachability charts.

**Reducing the Risk of Ground Water Contamination by Improving Fertilizer Storage and Handling.** Article. No date. Texas Agricultural Extension Service; EPA Developed/Funded: No. Available at: <http://soilcrop.tamu.edu/publications/pubs/b6026.pdf>. Audience: Farmers. *Topics covered:* Wellhead Protection Guidelines, Implementing Wellhead Protection, Best Management Practices.

This bulletin addresses that effects of improper fertilizer handling on ground water. Problems occur when nitrogen seeps through the soil and into ground water. The document emphasizes pollution prevention and covers the following topics: building new storage facilities; modifying existing facilities; mixing and loading practices; spills and container disposal; other management factors. The document also provides an evaluation table for analyzing specific facilities.

#### *Outreach Materials*

**New Sole Source Aquifer Designated in Utah: "Sole Source Aquifer Determination for the Cas Valley Aquifer System, Castle Valley, UT".** Article. 2001. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/swp/ssa/utssa.html>. Audience: U.S. EPA Regions, States, Tribes. *Topics covered:* Sole Source Aquifer Designation.

In this Federal Register Notice of Final Determination, EPA in Region 8 has determined that the Castle Valley Aquifer System in Castle Valley, Utah is the principal source of drinking water for the region. The aquifer area and petitioning process for sole source status is described.

**Shallow Disposal Systems Are Everyone's Business.** Video. 2000. EPA Region 8 Ground Water Program, EPA 908-V-98-001; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/uic/videos.html>. Audience: Business, Local Officials, General Public, States, Tribes, U.S. Forest Service, U.S. National Park Service, Bureau of Indian Affairs, U.S. Department of Agriculture, U.S. Air Force, U.S. Army Corps of Engineers, Department of Energy, U.S. Fish & Wildlife, OSM, U.S. Geological Survey, Bureau of Land Management. *Topics covered:* Implementing Wellhead Protection, Wellhead Protection Examples, Education and Training Materials, Explains Underground Injection Control Regulations, Media Information on Source Water Protection.

A new video has been created to assist Class V well operators solve problems caused by Class V well contamination. The video uses a case history of contamination from Class V wells to show how a cooperative effort by local governments and the business community was successful in stopping actual and potentials sources of pollution.



**MTBE Farm\*A\*Syst Brochure: Drinking Water and MTBE:A Guide for Private Well Owners.** Brochure. 2000. EPA/ Farm\*A\*Syst; EPA Developed/Funded: Yes. Available at: <http://www.uwex.edu/farmandhome/wqpaap/pdf/mtbe.pdf>. Audience: Farmers, Local Officials, General Public, Water Suppliers. *Topics covered:* Implementing Wellhead Protection, Implementing Source Water Protection, Education and Training Materials.

This brochure provides private well owners with basic information about the gasoline additive chemical methyl tertiary-butyl ether (MTBE), including how to assess your household's exposure risk (checklist), what to do if you have MTBE contamination, and how to protect your drinking water from potential MTBE pollution.

**Wellhead Protection: Lessons Learned through Local Stewardship.** Article. 1999. GWF; EPA Developed/Funded: Yes. Available at: <http://www.groundwater.org/FreeThings/free.htm>. Audience: Local Officials, General Public. *Topics covered:* Implementing Wellhead Protection.

This booklet covers the basic steps of an effective Wellhead Protection (WHP) Program, community protection goals, outcomes and obstacles.

**Let's Make a Difference: Mobilizing for Community Action.** Guide. 1999. GWF; EPA Developed/Funded: Yes. Available at: <http://www.groundwater.org/FreeThings/free.htm>. Audience: Local Officials, General Public, Water Suppliers. *Topics covered:* Implementing Wellhead Protection, Public Participation, Education and Training Materials.

This motivational guide will jumpstart your engine for groundwater protection and community involvement.

**Citizen's Guide to Ground-Water Protection, (Updated 1999).** Guide. 1999. Office of Ground Water and Drinking Water, EPA 440-6-90-004; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/protect/citguide.html>. Audience: Local Officials, General Public. *Topics covered:* Implementing Wellhead Protection.

This document introduces citizens to the natural cycle that supplies the earth with ground water. It also explains how ground water can become contaminated, examines ways to protect ground water supplies, and describes the roles citizens and communities can play in protecting valuable ground water supplies.

**Why Do Wellhead Protection? Issues And Answers In Protecting Public Drinking Water Supply Systems.** Guide. 1995. Office of Ground Water and Drinking Water, EPA 813-K-95-001; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local Officials, General Public, Water Suppliers, States, Tribes. *Topics covered:* Implementing Wellhead Protection.



Protection of public water supply wells through WHP activities is also considered an important component of a Comprehensive State Ground Water Protection Program (CSGWPP). EPA has established a set of ground water protection principles which recognize that the primary role of ground water protection should be vested with the states. EPA is providing funds to states to undertake necessary WHP activities and programs as a critical component of a CSGWPP.

**Tribal Wellhead Protection Demonstration Projects.** Report. 1995. Office of Ground Water and Drinking Water, EPA 813-R-95-001; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: States, Tribes. *Topics covered:* Wellhead Protection Examples.

These case studies illustrate Tribal wellhead protection activities, and highlight several concerns that tribes may have in implementing wellhead protection. These concerns include: ground water recharge or wellhead protection areas that are located outside the boundaries of Tribal reservations; the relationship between ground water and surface water within reservations; and the difficulties in implementing or enforcing a program in the absence of a Tribal judicial body.

**The Wellhead Protection Program: Forerunner to Source Water Protection Efforts across the Nation.** Fact Sheet. 1995. Office of Ground Water and Drinking Water, EPA 813-F-95-001; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: General Public, Tribes. *Topics covered:* Wellhead Protection Guidelines.

This fact sheet describes wellhead protection efforts around the U.S. It summarizes the background, purpose, and implementation of the Wellhead Protection Program.

**Protecting Our Ground Water.** Fact Sheet. 1995. Office of Ground Water and Drinking Water, EPA 813-F-95-002; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: General Public. *Topics covered:* Implementing Wellhead Protection.

This brochure describes the dangers to ground water and measures for protecting ground water. It includes a map of states with public water supplies dependent upon ground water and a good illustration of the water cycle.

**Handbook: Groundwater and Wellhead Protection.** Report. 1994. Office of Ground Water and Drinking Water, EPA 625-R-94-001; EPA Developed/Funded: Yes. Available at: <http://www.nal.usda.gov/ddsb/>. Audience: Local Officials, General Public, Tribes. *Topics covered:* Wellhead Protection Guidelines, Implementing Wellhead Protection.

Much of this handbook discusses methods for wellhead protection area delineation. It also provides guidance on developing a wellhead protection plan,

including a contaminant source inventory and management options. Several case studies are provide additional implementation information.

**Case Study: Preventing Ground Water Contamination.** Case Study. 1993. U.S. EPA, EnviroSense; EPA Developed/Funded: Yes. Available at: <http://es.epa.gov/techinfo/case/michigan/michcs15.html>. Audience: Business, Local Officials. *Topics covered:* Wellhead Protection Examples, Education and Training Materials.

This case study that presents several waste management tips designed to assist small businesses in their efforts to manage wastewater properly. The tips include waste reduction recommendations. The document also includes a list of wastes of special concern.

**A Guide to Federal Environmental Requirements for Small Governments.** Report. 1993. Office of Ground Water and Drinking Water, EPA 270-K-93-001; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local Officials, States, Tribes. *Topics covered:* Wellhead Protection Guidelines, Source Water Assessment Program, Public Participation, Source Water Protection Guidelines, Education and Training Materials, Explains Underground Injection Control Regulations.

This document was produced by the EPA Office of Regional Operations and State/Local Relations. It is a reference handbook intended to help local officials become familiar with EPA requirements that may apply to their jurisdictions.

**A Guide for Cost Effectiveness and Cost Benefit Analysis of State and Local Groundwater Protection Programs.** Report. 1993. Office of Ground Water and Drinking Water, EPA 813-R-93-001; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local Officials, States. *Topics covered:* Wellhead Protection Guidelines.

This guide familiarizes state and local ground water program managers with the tools of economic analysis. It shows how these tools can be used to evaluate ground water programs through cost effectiveness or cost benefit analysis. Case studies show the practical application of cost analysis, cost effectiveness analysis, and cost-benefit analysis. A bibliography is included to provide additional information on these subjects.

**Ground Water Protection: A Citizen's Action Checklist.** Guide. 1992. Office of Ground Water and Drinking Water, EPA 810-F-92-002; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: General Public. *Topics covered:* Wellhead Protection Guidelines, Implementing Wellhead Protection.

This checklist contains an overview of potential threats to ground water supplies, including contamination from residential and commercial sources. The document

also outlines steps that citizens may take to help protect the local drinking water supply.

**Case Studies in Wellhead Protection: Ten Examples of Innovative Wellhead Protection Programs.** Case Study. 1992. Office of Ground Water and Drinking Water, EPA 813-R-92-002; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Local Officials, General Public, Water Suppliers, States, Tribes. *Topics covered:* Wellhead Protection Examples.

This document assists provides examples of wellhead protection programs that are being implemented. The purpose of the document is to assist state, local, and Tribal water managers in developing, refining, and implementing wellhead protection programs.

**Best Management Practices for Protecting Groundwater.** Fact sheet. 1992. Office of Ground Water and Drinking Water, EPA 570-9-91-036; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf>. Audience: Business, Local Officials, Water Suppliers, States, Tribes. *Topics covered:* Implementing Wellhead Protection, Best Management Practices.

This series of fact sheets lists best management practices (BMPs) developed for 12 facilities and industries. The Best Management Practices focus on well closure and alternative disposal methods.

**Protecting the Nation's Ground Water: EPA's Strategy for the 1990s.** Report. 1991. Office of Ground Water and Drinking Water, EPA 21Z-1020; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: General public, States, Tribes. *Topics covered:* Wellhead Protection Guidelines.

This document updates EPA's 1984 Ground Water Protection Strategy, which articulated known methods for protecting ground water resources, and set out an appropriate role for the Agency. The report updates Agency policy and includes implementation principles that reflect an aggressive approach to protecting the Nation's ground water resources. The strategy prioritizes prevention of ground water contamination, and strives to improve EPA's coordination of ground water activities under all statutes and programs. The strategy recognizes that ground water is a uniquely local resource for which States and local governments must assume primary responsibility.

**Protecting Local Ground-Water Supplies through Wellhead Protection.** Guide. 1991. Office of Ground Water and Drinking Water, EPA 570-9-91-007; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local Officials, General Public, Tribes. *Topics covered:* Implementing Wellhead Protection.

This guide outlines an easy-to-follow, five-step process that communities can take to protect public water supply wells. The document presents an approach to protecting ground water supplies that can be coordinated with existing state and federal ground water supply protection programs.

**EPA's Strategy for Protecting the Nation's Ground Water in the 1990s: Quick Reference Fact Sheet.** Fact Sheet. 1991. Office of Ground Water and Drinking Water, EPA 570-9-91-011; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/cgi-bin/claritgw?op-Display&document=clserv:OSWER:2513;&rank=4&template=epa>. Audience: General public, States, Tribes. *Topics covered:* Wellhead Protection Guidelines.

This fact sheet summarizes EPA's ground water policy, as described in the report "Protecting the Nation's Ground Water: EPA's Strategy for the 1990s."

**Progress in Ground Water Protection and Restoration.** Report. 1990. Office of Ground Water and Drinking Water, EPA 440-6-90-001; EPA Developed/Funded: Yes. Available at: NTIS. Audience: General Public, Tribes. *Topics covered:* Wellhead Protection Guidelines.

This document details a July 18, 1989, a ground-water task force meeting to develop EPA's strategy for ground water protection. The strategy incorporates recommendations and initiatives to ensure effective and consistent decision-making in all Agency actions affecting ground water. The strategy also guides future ground water decisions and seeks to ensure a clean and safe source of drinking water for all Americans.

**Wellhead Protection: A Decision Maker's Guide.** Guide. 1987. Office of Ground Water and Drinking Water, EPA 440-6-87-009; EPA Developed/Funded: Yes. Available at: [http://www.epa.gov/reg3wapd/wellhead/wellhead\\_publications.pdf](http://www.epa.gov/reg3wapd/wellhead/wellhead_publications.pdf). Audience: Local Officials, States, Tribes. *Topics covered:* Implementing Wellhead Protection.

This booklet explains how the Federal Wellhead Protection Program is meant to help states solve wellhead protection problems. In addition, the booklet explains how the Program works and how states can benefit from participating.

**Septic Systems and Groundwater Protection: An Executive's Guide.** Guide. 1986. Office of Ground Water and Drinking Water, EPA 440-6-86-005; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Business, Local Officials, General Public. *Topics covered:* Wellhead Protection Guidelines, Contamination Sources, Explains Underground Injection Control Regulations.

This document is a companion the program manager's guide and provides a brief description of the relationship between septic system use and ground water

contamination. This document conveys the main points of the longer program manager's guide to the state or local legislator or chief executive.

**Newsletter - Notes from Underground.** Article. No date. EPA Region 9; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/region09/water/underground/notes/>. Audience: Local Officials, General Public, Water Suppliers, States, Tribes. *Topics covered:* Wellhead Protection Guidelines, SSA Designation, Wellhead Protection Examples, Source Water Protection Guidelines, Education and Training Materials, Explains Underground Injection Control Regulations.

This newsletter is published by EPA Region 9's Ground Water Office. Its purpose is to bring information about source water protection, underground injection control, and related compliance and public water supply issues to injection well operators, the public water supply industry, other regulators, and the general public.

#### *Programmatic Guidance*

**Guidance for Future State Ground Water Protection Grants.** Program Guide. 1997. Office of Ground Water and Drinking Water, EPA 816-R-97-010; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/swp/gwpgrt.html>. Audience: U.S. EPA Regions, States. *Topics covered:* Wellhead Protection Guidelines, Funding Wellhead Protection.

This memorandum outlines the purpose and process for states to apply for EPA grant funds to supplement comprehensive state ground water protection programs. As of the date of this memo, funds had not been appropriated for these grants, but the steps EPA will take are outlined. The 1992 final comprehensive Comprehensive State Ground Water Protection Program document [100/R-93-001] is cited.

**Final Comprehensive State Ground Water Protection Programs Guidance.** Program Guide. 1992. Office of Ground Water and Drinking Water, EPA 100-R-93-001; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf>. Audience: U.S. EPA Regions, States. *Topics covered:* Wellhead Protection Area Delineation.

This guidance describes the cooperative process that states and EPA use in developing and implementing comprehensive state ground water protection programs. The guidance considers current or threatened contamination, recent responses to contamination, and future legislative, regulatory, and other federal initiatives.

**Managing Ground-Water Contamination Sources in Wellhead Protection Areas: A Priority Setting Approach.** Program Guide. 1991. Office of Ground Water and Drinking Water, EPA 570-9-91-023; EPA Developed/Funded: Yes. Available at:

<http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Business, Local Officials, Water Suppliers, States, Tribes. *Topics covered:* Implementing Wellhead Protection.

This document is one of a series of technical assistance documents designed by EPA to help local governments and public water suppliers protect wells and implement their state and local Wellhead Protection Programs. The priority setting approach provides a risk screening tool for assessing and ranking the relative threats to ground water supplies posed by specific potential contamination sources.

**Guide to Ground-Water Supply Contingency Planning for Local and State Governments: Technical Assistance Document.** Program Guide. 1990. Office of Ground Water and Drinking Water, EPA 440-6-90-003; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Local Officials, Water Suppliers, States, Tribes. *Topics covered:* Wellhead Protection Guidelines, Implementing Wellhead Protection.

This document provides assistance to states and local communities in establishing, providing, maintaining, and updating certain emergency response procedures that may become necessary if a partial or total loss of public water supply service occurs. The development and integration of these emergency response procedures into a workable plan constitutes the Contingency Planning Process.

**Developing a State Wellhead Protection Program: A User's Guide to Assist State Agencies under the Safe Drinking Water Act.** Program Guide. 1988. Office of Ground Water and Drinking Water, EPA 440-6-88-003; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: States. *Topics covered:* Wellhead Protection Guidelines.

This technical assistance document illustrates ranges of options and approaches that states may use when developing their wellhead protection programs. The document includes a road map to guide the reader through the steps of the wellhead protection program planning process.

**Sole Source Aquifer Designation: Petitioner Guidance.** Program Guide. 1987. Office of Ground Water and Drinking Water, EPA 440-6-87-003; EPA Developed/Funded: Yes. Available at: NSCEP\* and <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local officials, General Public, Water Suppliers, States. *Topics covered:* SSA Designation.

This guidance document assists potential sole source aquifer (SSA) petitioners in preparing and submitting their SSA petitions to EPA. It presents an overview of the process and provides instructions for completing the petition.

**Guidance for Applicants for State Wellhead Protection Program Assistance Funds under the Safe Drinking Water Act - Appendix C: Wellhead Protection Program Applicable Regulations.** Program Guide. 1987. Office of Ground Water and Drinking



Water, EPA 440-6-87-012; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local officials, Water Suppliers, States. *Topics covered:* Wellhead Protection Guidelines, Funding Wellhead Protection.

Appendix C is a companion document to the guidance for state wellhead protection assistance fund applicants. It explains EPA regulations applicable to the wellhead protection program and provides the assistance application form needed to request a program grant. These two documents are used to develop approvable assistance applications and to properly administer the funds awarded under the wellhead protection program.

**Guidance for Applicants for State Wellhead Protection Program Assistance Funds under the Safe Drinking Water Act.** Program Guide. 1987. Office of Ground Water and Drinking Water, EPA 440-6-87-011; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: States. *Topics covered:* Wellhead Protection Guidelines, Funding Wellhead Protection.

This guidance document provides procedural and technical information for applicants eligible to apply for federal grant funds to develop and implement wellhead protection programs. Complete with a glossary of terms and applicable regulations, this 50-page guide thoroughly explains EPA's policies and procedures for implementing a wellhead protection program.

## **UNDERGROUND INJECTION CONTROL**

### *Technical Materials*

**Introduction to Underground Injection Control Permitting.** Web page. 2002. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/dwa/electronic/presentations/uic/permitting.ppt>. Audience: U.S. EPA Regions, States, Tribes. *Topics covered:* Education and Training Materials, Explains Underground Injection Control Regulations.

This EPA Drinking Water Academy training module provides an introduction to Underground Injection Control (UIC) permitting issues for new permit writers. The course discusses permit requirements and explains what to look for in reviewing each of the attachments to a Underground Injection Control permit application. The course also provides a forum for sharing permit strategies among Underground Injection Control professionals.

**Introduction to the Underground Injection Control Program.** Web page. 2002. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/dwa/electronic/presentations/uic/pt1/uic18.html>. Audience: Local Officials, U.S. EPA Regions, States, Tribes. *Topics covered:* Education and Training Materials, Explains Underground Injection Control Regulations.



This EPA Drinking Water Academy course explains what an injection well is and how it relates to subsurface geology. It reviews the origins of the Underground Injection Control (UIC) program and program elements under Safe Drinking Water Act. The module also describes some of the challenges facing today's Underground Injection Control program.

**Training Materials on Source Water Protection BMP Practices.** Web page. 2002. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/dwa/electronic/ematerials.html#SWP>; <http://www.epa.gov/safewater/protect/swpbull.html>. Audience: Business, Local Officials, General Public, Water Suppliers, U.S. EPA Regions, States, Tribes. *Topics covered:* Implementing Source Water Protection, Promotes Source Water Protection Benefits, Best Management Practices, Education and Training Materials, Explains Underground Injection Control Regulations.

Many of EPA's source water protection training materials are available for download at these web sites. EPA has developed training materials on best management practices (BMPs) and other measures for protecting drinking water supplies. The materials are divided into two parts: a training module in Microsoft PowerPoint format at <http://www.epa.gov/safewater/dwa/electronic.html> and a series of more detailed source water protection "practices bulletins" by specific potential contaminant sources.

**Notice of Final Decision on Motor Vehicle Waste Disposal Wells in EPA Region 8; Underground Injection Control (UIC) Class V Program.** Article. 2002. EPA Region 8 Ground Water Program, FRL-7221-1; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/fedrgstr/EPA-WATER/2002/June/Day-04/w13699.htm>. Audience: Business, Local Officials, General Public, U.S. EPA Regions, U.S. Forest Service, U.S. National Park Service, Bureau of Indian Affairs, U.S. Department of Agriculture, U.S. Air Force, U.S. Army Corps of Engineers, Department of Energy, U.S. Fish & Wildlife, OSM, U.S. Geological Survey, Bureau of Land Management. *Topics covered:* Wellhead Protection Area Delineation, Implementing Wellhead Protection, Wellhead Protection Examples, Public Participation, Explains Underground Injection Control Regulations, Media Information on Source Water Protection, Clean Water Act/Safe Drinking Water Act Integration, Watersheds and Source Water Protection.

EPA's Federal Register Notice announcing the decision under which each motor vehicle waste disposal well in Colorado, Montana, or South Dakota (regardless of whether it is in Indian country) or in Indian country in North Dakota, Utah, or Wyoming must either be closed or covered by a Class V Underground Injection Control (UIC) permit application no later than January 1, 2007.

**The Class V Rule: A Quick Reference Guide for Regulators.** Guide. 2000. Office of Ground Water and Drinking Water, EPA 816-F-00-029; EPA Developed/Funded: Yes.

Available at: NSCEP\*. Audience: Local Officials, U.S. EPA Regions, States, Tribes.  
*Topics covered:* Explains Underground Injection Control Regulations.

This one-page reference guide lists the rule requirements, permit requirements, year 2000 revisions to Underground Injection Control regulations, and implementation schedule for the Class V rule.

**Conversion of a Motor Vehicle Waste Disposal Well: A UIC Director's Guide .** Guide. 2000. Office of Ground Water and Drinking Water, EPA 816-R-00-017; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/uic/conversionguide.pdf>. Audience: U.S. EPA Regions, States, Tribes. *Topics covered:* Explains Underground Injection Control Regulations.

This document outlines for Underground Injection Control (UIC) Program Directors and their staff, the new requirements for allowing the conversion (reclassification) of a motor vehicle waste disposal well to another type of Class V injection well. The guidance also discusses other Underground Injection Control requirements that may affect a conversion and additional factors that may need to be considered such as Best Management Practices (BMPs).

**The Class V Underground Injection Control Study, Volume 3: Storm Water Drainage Wells.** Report. 1999. Office of Ground Water and Drinking Water, EPA 816-R-99-014c; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/uic/classv/pdfs/volume3.pdf>. Audience: General Public, U.S. EPA Regions, States. *Topics covered:* Explains Underground Injection Control Regulations, Watersheds and Source Water Protection.

The Class V study provides background information for EPA to use in evaluating the risk that approximately 20 types of Class V wells pose to underground sources of drinking water. EPA used the information to determine if additional federal regulations for these well types are warranted and, if so, how each well should be regulated. Volume 3 covers Storm Water Drainage Wells, which are shallow injection wells designed for the disposal of rain water and melted snow.

**The Class V Underground Injection Control Study, Volume 5: Large Capacity Septic Systems.** Report. 1999. Office of Ground Water and Drinking Water, EPA-816-R-99-014E; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/uic/classv/pdfs/volume5.pdf>. Audience: Business, General Public, U.S. EPA Regions, States. *Topics covered:* Explains Underground Injection Control Regulations, Watersheds and Source Water Protection.

The Class V study provides background information for EPA to use in evaluating the risk that approximately 20 types of Class V wells pose to underground sources of drinking water. EPA used the information to determine if additional federal regulations for these well types are warranted and, if so, how each well should be regulated. Volume 5 covers large capacity septic systems, which are used to

dispose of sanitary waste through a septic tank, used by a multiple dwelling, business establishment, community, or regional business establishment for the injection of wastes.

**"Septic Systems: Operation and Maintenance of On-site Sewage Disposal Systems" in Land and Water: Conserving Natural Resources in Illinois.** Article. 1989. Bicki, T.J. and D.G. Peterson; EPA Developed/Funded: No. Available at: <http://hermes.ecn.purdue.edu/cgi/convwqtest?lw-15.il.ascii>. Audience: Homeowners. *Topics covered:* Implementing Source Water Protection, Contamination Sources, Explains Underground Injection Control Regulations, Watersheds and Source Water Protection.

This article outlines proper operation and maintenance for on-site sewage disposal systems to ensure system longevity and to protect ground water and surface water. The document describes septic tank/soil absorption systems, types of absorption fields, and alternative systems.

**Septic Systems and Groundwater Protection: A Program Manager's Guide and Reference Book.** Guide. 1986. Office of Ground Water and Drinking Water, EPA 440-6-86-006; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Business, Local Officials, General Public. *Topics covered:* Wellhead Protection Guidelines, Contamination Sources, Explains Underground Injection Control Regulations.

This document describes in detail the major issues state and local managers must address in protecting ground water through management and control. It provides program options and regulatory language from existing septic system management programs. The document is designed to provide information concerning effective septic system management to officials responsible for developing state or local codes.

#### *Outreach Materials*

**Protecting Drinking Water Through Underground Injection Control: Drinking Water Pocket Guide #2.** Guide. 2002. Office of Ground Water and Drinking Water, EPA 816-K-02-001; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Business, Local Officials, General Public, Water Suppliers. *Topics covered:* Explains Underground Injection Control Regulations.

This booklet outlines the Underground Injection Control (UIC) program basics and the minimum federal requirements for an effective Underground Injection Control program. Includes a brief Underground Injection Control program history, well descriptions, glossary, agency, and contacts list.

**How a Shallow Disposal System on Your Property Affects You.** Web page. 2002. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available

at: <http://www.epa.gov/safewater/uic/cl5oper/index.html>. Audience: Business, Local Officials, General Public, Water Suppliers. *Topics covered:* Education and Training Materials, Explains Underground Injection Control Regulations.

EPA web article: overview of types of and requirements for shallow disposal system, including links to related material.

**The Problem with Shallow Disposal Systems.** Video. 2001. Office of Ground Water and Drinking Water, EPA 816-V-97-001; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Business, General Public. *Topics covered:* Education and Training Materials, Explains Underground Injection Control Regulations.

This 15-minute video about Class V injection wells reveals how chemical waste discharged to ground water through shallow disposal systems contaminates water resources, how it affects communities, and details some simple, preventive steps a community can take to reduce this serious threat to its water supply.

**Safe Drinking Water Act: Underground Injection Control Program, Protecting Public Health and Drinking Water Resources.** Poster. 2001. Office of Ground Water and Drinking Water, EPA 816-H-01-003; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Business, General Public, Water Suppliers. *Topics covered:* Explains Underground Injection Control Regulations.

Spanish and English versions of a diagram and fact sheet depicting the five classes of Underground Injection Controls and discussing their impact on public health and public drinking water sources.

**Class V Injection Wells Small Entity Compliance Guide: How the New Motor Vehicle Waste Disposal Well Rule Affects Your Business.** Fact Sheet. 2000. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/uic/smallcompliance.pdf>. Audience: Business, Water Suppliers. *Topics covered:* Explains Underground Injection Control Regulations, Clean Water Act/Safe Drinking Water Act Integration.

This non-technical guidance document outlines the minimum Federal requirements for motor vehicle waste disposal wells. It is divided into question and answer sections designed to help small business owners discern if they have a motor vehicle waste disposal well, which rule segments may affect their well, and tips and courses of action to take if they are affected.

**Funding Class V Injection Well Closures with the Clean Water State Revolving Fund.** Fact Sheet. 2000. Office of Ground Water and Drinking Water, EPA 832-F-00-001; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/owm/cwfinance/cwsrf/clasvwell.pdf>. Audience: Local Officials, U.S. EPA Regions, States, Tribes. *Topics covered:* Funding Wellhead Protection,

## Funding Source Water Protection, Explains Underground Injection Control Regulations, Clean Water Act/Safe Drinking Water Act Integration

This fact sheet summarizes the Class V Wells Rule requirements and describes the process for soliciting funds from the CWSRF to comply with the regulations. The information included covers how to get a project funded, who may qualify, sources of repayments, and success stories.

**Shallow Disposal Systems Are Everyone's Business.** Video. 2000. EPA Region 8 Ground Water Program, EPA 908-V-98-001; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/uic/videos.html>. Audience: Business, Local Officials, General Public, States, Tribes, U.S. Forest Service, U.S. National Park Service, Bureau of Indian Affairs, U.S. Department of Agriculture, U.S. Air Force, U.S. Army Corps of Engineers, Department of Energy, U.S. Fish & Wildlife, OSM, U.S. Geological Survey, Bureau of Land Management. *Topics covered:* Implementing Wellhead Protection, Wellhead Protection Examples, Education and Training Materials, Explains Underground Injection Control Regulations, Media Information on Source Water Protection.

A new video has been created to assist Class V well operators solve problems caused by Class V well contamination. The video uses a case history of contamination from Class V wells to show how a cooperative effort by local governments and the business community was successful in stopping actual and potential sources of pollution.

**Class V Injection Wells and Your Drinking Water.** Fact Sheet. 1995. Office of Ground Water and Drinking Water, EPA 813-F-94-005; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: General Public. *Topics covered:* Education and Training Materials, Explains Underground Injection Control Regulations.

This pamphlet briefly defines Class V injection wells and outlines EPA Class V regulations.

**Is Your Community's Drinking Water At Risk? Misused Septic Systems Can Cost Million\$.** Report. 1995. Office of Ground Water and Drinking Water, EPA 813-F-95-004; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Homeowners, Local Officials, General Public. *Topics covered:* Education and Training Materials, Explains Underground Injection Control Regulations.

This document describes the risk posed by businesses that discharge waste water to septic systems or shallow wells. It provides examples of contamination events and the resultant costs. Suggestions for prevention are also provided for local officials.

**Underground Injection Wells and Your Drinking Water.** Fact Sheet. 1994. Office of Ground Water and Drinking Water, EPA 813-F-94-001; EPA Developed/Funded: Yes.

Available at: NSCEP\*. Audience: General Public. *Topics covered:* Education and Training Materials, Explains Underground Injection Control Regulations.

This pamphlet briefly defines the five classes of underground injection wells and provides an overview of EPA's Underground Injection Control Program.

**Class III Injection Wells and Your Drinking Water.** Fact Sheet. 1994. Office of Ground Water and Drinking Water, EPA 813-F-94-004; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf>. Audience: Industry, States. *Topics covered:* Education and Training Materials, Explains Underground Injection Control Regulations.

This pamphlet briefly defines Class III injection wells and outlines EPA Class III regulations.

**Class II Injection Wells and Your Drinking Water.** Fact Sheet. 1994. Office of Ground Water and Drinking Water, EPA 813-F-94-003; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Industry, States. *Topics covered:* Education and Training Materials, Explains Underground Injection Control Regulations.

This pamphlet briefly defines Class II injection wells and outlines EPA Class II regulations.

**Class I Injection Wells and Your Drinking Water.** Fact Sheet. 1994. Office of Ground Water and Drinking Water, EPA 813-F-94-002; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf>. Audience: Industry, States. *Topics covered:* Education and Training Materials, Explains Underground Injection Control Regulations.

This pamphlet briefly defines Class I injection wells and outlines EPA Class I regulations.

**A Guide to Federal Environmental Requirements for Small Governments.** Report. 1993. Office of Ground Water and Drinking Water, EPA 270-K-93-001; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local Officials, States, Tribes. *Topics covered:* Wellhead Protection Guidelines, Source Water Assessment Program, Public Participation, Source Water Protection Guidelines, Education and Training Materials, Explains Underground Injection Control Regulations.

This document was produced by the EPA Office Of Regional Operations and State/Local Relations. It is a reference handbook intended to help local officials become familiar with EPA requirements that may apply to their jurisdictions.

**Septic Systems and Groundwater Protection: An Executive's Guide.** Guide. 1986. Office of Ground Water and Drinking Water, EPA 440-6-86-005; EPA



Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Business, Local Officials, General Public. *Topics covered:* Wellhead Protection Guidelines, Contamination Sources, Explains Underground Injection Control Regulations.

This document is a companion to the program manager's guide and provides a brief description of the relationship between septic system use and ground water contamination. This document conveys the main points of the longer program manager's guide to the state or local legislator or chief executive.

**Newsletter - Notes from Underground.** Article. No date. EPA Region 9; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/region09/water/underground/notes/>. Audience: Local Officials, General Public, Water Suppliers, States, Tribes. *Topics covered:* Wellhead Protection Guidelines, SSA Designation, Wellhead Protection Examples, Source Water Protection Guidelines, Education and Training Materials, Explains Underground Injection Control Regulations.

This newsletter is published by U.S. EPA Region 9, Ground Water Office. Its purpose is to bring information about source water protection, underground injection control, and related compliance and public water supply issues to injection well operators, the public water supply industry, other regulators, and the general public.

### *Programmatic Guidance*

**Class V Injection Wells: Notice of Final Determination: EPA Will Continue with its Existing Approach for Managing Class V Injection Wells.** Regulation. 2002. Office of Ground Water and Drinking Water, EPA 816-F-02-010; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Business, Local Officials, Water Suppliers, U.S. EPA Regions, States, Tribes. *Topics covered:* Explains Underground Injection Control Regulations.

EPA fact sheet in Q&A format discussing the definitions of, federal regulatory requirements applying to, and federal managements plan for Class V injection wells.

**New Regulation Addressing Motor Vehicle Maintenance Facilities' Impact on Ground Water: U.S. EPA Region 8's Implementation Proposal.** Article. 2001. EPA Region 8 Ground Water Program; EPA Developed/Funded: Yes. Available at: [http://www.r8roc.org/EPApublic\\_notice\\_\\_new\\_regulation\\_ad.htm](http://www.r8roc.org/EPApublic_notice__new_regulation_ad.htm). Audience: Business, Local Officials, General Public, U.S. EPA Regions, States, Tribes, U.S. Forest Service, U.S. National Park Service, Bureau of Indian Affairs, U.S. Department of Agriculture, U.S. Air Force, U.S. Army Corps of Engineers, Department of Energy, U.S. Fish & Wildlife, OSM, U.S. Geological Survey, Bureau of Land Management. *Topics covered:*



## Public Participation, Explains Underground Injection Control Regulations, Clean Water Act/Safe Drinking Water Act Integration, Watersheds and Source Water Protection

This public notice reviews the need for the new regulation and announces the proposed implementation plan: as the new regulations require that existing motor vehicle waste disposal systems be phased out in specific geographic areas identified by State and U.S.EPA Underground Injection Control program, for the states of Colorado, Montana, South Dakota, and all of Indian Country throughout EPA Region 8, U.S. EPA today is proposing to phase out the operation of these disposal systems on a state- and Indian Country-wide basis. If U.S. EPA implements this proposal, owners/operators, regardless of facility location, would have to demonstrate that their waste stream meets stringent federal drinking water standards as part of a permit application process OR cease discharging into the ground no later than January 1, 2007.

**Class V Injection Wells: EPA Announces New Regulatory Requirements for Certain Class V Injection Wells.** Fact Sheet. 1999. Office of Ground Water and Drinking Water, EPA 816-F-99-016; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/ogwdw000/uic/c5fin-fs.pdf>. Audience: Business, Local Officials, General Public, U.S. EPA Regions, States, Tribes. *Topics covered:* Explains Underground Injection Control Regulations.

Fact sheet outlining Class V injection wells and the new requirements. Compliance schedules for owners and operators also detailed. Information on additional resources and the Federal Register notice included.

## CLEAN WATER ACT/SAFE DRINKING WATER ACT (CWA/SDWA) INTEGRATION

### *Technical Materials*

**Federal Index of Information Relevant to Source Water Assessment and Protection** Guide. 2002. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/protect/feddata.html>. Audience: Business, Local Officials, General Public, Water Suppliers, U.S. EPA Regions, States, Tribes. *Topics covered:* Source Water Assessment Program, Source Water Protection Guidelines, Implementing Source Water Protection, Source Water Protection Examples, Clean Water Act/Safe Drinking Water Act Integration, Watersheds and Source Water Protection.

This Federal Agency Data Index provides access to information relevant to source water assessment and protection efforts from the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, Transportation, EPA, FEMA, Tennessee Valley Authority, U.S.PS, and Farm\*A\*Systst\*Home\*A\*Syst.

**Notice of Final Decision on Motor Vehicle Waste Disposal Wells in EPA Region 8; Underground Injection Control (UIC) Class V Program.** Article. 2002. EPA Region 8 Ground Water Program, FRL-7221-1; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/fedrgstr/EPA-WATER/2002/June/Day-04/w13699.htm>. Audience: Business, Local Officials, General Public, U.S. EPA Regions, U.S. Forest Service, U.S. National Park Service, Bureau of Indian Affairs, U.S. Department of Agriculture, U.S. Air Force, U.S. Army Corps of Engineers, Department of Energy, U.S. Fish & Wildlife, OSM, U.S. Geological Survey, Bureau of Land Management. *Topics covered:* Wellhead Protection Area Delineation, Implementing Wellhead Protection, Wellhead Protection Examples, Public Participation, Explains Underground Injection Control Regulations, Media Information on Source Water Protection, Clean Water Act/Safe Drinking Water Act Integration, Watersheds and Source Water Protection.

EPA's Federal Register Notice announcing the decision under which each motor vehicle waste disposal well in Colorado, Montana, or South Dakota (regardless of whether it is in Indian country) or in Indian country in North Dakota, Utah, or Wyoming must either be closed or covered by a Class V Underground Injection Control (UIC) permit application no later than January 1, 2007.

#### *Outreach Materials*

**"Ground Water in the Plains, Canyonlands, and Mountains" article for Natural News.** Article. 2001. EPA Region 8, EPA 908-R-01-012; EPA Developed/Funded: Yes. Available at: [http://www.epa.gov/region08/community\\_resources/steward/estnatural/nnewsfall01.PDF](http://www.epa.gov/region08/community_resources/steward/estnatural/nnewsfall01.PDF). Audience: Local Officials, General Public, U.S. Forest Service, U.S. National Park Service, Bureau of Indian Affairs, U.S. Department of Agriculture, U.S. Air Force, U.S. Army Corps of Engineers, Department of Energy, U.S. Fish & Wildlife, OSM, U.S. Geological Survey, Bureau of Land Management. *Topics covered:* Source Water Assessment Program, Source Water Assessments, Implementing Source Water Protection, Promotes Source Water Protection Benefits, Clean Water Act/Safe Drinking Water Act Integration.

Update on the status of a summary of the status of groundwater in the states of Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming, written by the Source Water/Ground Water Unit in EPA Region 8.

**Class V Injection Wells Small Entity Compliance Guide: How the New Motor Vehicle Waste Disposal Well Rule Affects Your Business.** Fact Sheet. 2000. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/uic/smallcompliance.pdf>. Audience: Business, Water Suppliers. *Topics covered:* Explains Underground Injection Control Regulations, Clean Water Act/Safe Drinking Water Act Integration.

This non-technical guidance document outlines the minimum Federal requirements for motor vehicle waste disposal wells. It is divided into question

and answer sections designed to help small business owners to discern if they have a motor vehicle waste disposal well, which rule segments may affect their well, and tips and courses of action to take if they are affected.

**Funding Class V Injection Well Closures with the Clean Water State Revolving Fund.** Fact Sheet. 2000. Office of Ground Water and Drinking Water, EPA 832-F-00-001; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/owm/cwfinance/cwsrf/clasvwell.pdf>. Audience: Local Officials, U.S. EPA Regions, States, Tribes. *Topics covered:* Funding Wellhead Protection, Funding Source Water Protection, Explains Underground Injection Control Regulations, Clean Water Act/Safe Drinking Water Act Integration.

This fact sheet summarizes the Class V Wells Rule Requirements and describes the process for soliciting funds from the CWSRF to comply with the regulations. The information included covers how to get a project funded, who may qualify, sources of repayments, and success stories.

**305(b) Report Ground Water/Drinking Water Chapter.** Report. 2000. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/protect/features.html>. Audience: U.S. EPA Regions, States, Tribes, Congress. *Topics covered:* Assess Program Status, Clean Water Act/Safe Drinking Water Act Integration.

The 1998 report compiles 305b ground water quality data from 37 states, 3 territories, 4 tribes, and the District of Columbia. Ground water monitoring data are evaluated with positive results. Another chapter assesses drinking water sources through the evaluation of drinking water use data from 38 states, territories and tribes. This report informs Congress and the public about general water quality conditions in the U.S.

**The Clean Water State Revolving Fund: Financing America's Environmental Infrastructure -- A Report of Progress.** Report. 1995. Office of Ground Water and Drinking Water, EPA 832-R-95-001; EPA Developed/Funded: Yes. Available at: NTIS. Audience: Local Officials, U.S. EPA Regions, States, Tribes. *Topics covered:* Implementing Source Water Protection, Funding Source Water Protection, Assess Program Status, Clean Water Act/Safe Drinking Water Act Integration.

This report provides information on the accomplishments of the national Clean Water State Revolving Fund (SRF) program, the level of federal and state investment, how the program works, how communities benefit from the program, and the types of projects funded. The SRF was established under a mandate in the 1987 amendments to the Clean Water Act. Under this innovative program, states created revolving loan funds to provide independent and permanent sources of low-cost financing for a range of environmental infrastructure projects. By 1995, all fifty states and Puerto Rico had set up SRF programs.

**Funding Ground-Water Protection: A Quick Reference to Grants Available Under the Clean Water Act.** Guide. 1989. Office of Ground Water and Drinking Water, EPA 440-6-89-004; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf>. Audience: Local Officials, General Public, States, Tribes. *Topics covered:* Funding Wellhead Protection, Clean Water Act/Safe Drinking Water Act Integration.

This document explains funding sources under Titles II, III, and VI of the Clean Water Act.

### *Programmatic Guidance*

**New Regulation Addressing Motor Vehicle Maintenance Facilities' Impact on Ground Water: U.S. EPA Region 8's Implementation Proposal.** Article. 2001. EPA Region 8 Ground Water Program; EPA Developed/Funded: Yes. Available at: [http://www.r8roc.org/EPApublic\\_notice\\_\\_new\\_regulation\\_ad.htm](http://www.r8roc.org/EPApublic_notice__new_regulation_ad.htm). Audience: Business, Local Officials, General Public, U.S. EPA Regions, States, Tribes, U.S. Forest Service, U.S. National Park Service, Bureau of Indian Affairs, U.S. Department of Agriculture, U.S. Air Force, U.S. Army Corps of Engineers, Department of Energy, U.S. Fish & Wildlife, OSM, U.S. Geological Survey, Bureau of Land Management. *Topics covered:* Public Participation, Explains Underground Injection Control Regulations, Clean Water Act/Safe Drinking Water Act Integration, Watersheds and Source Water Protection.

This public notice reviews the need for the new regulation and announces the proposed implementation plan: as the new regulations require that existing motor vehicle waste disposal systems be phased out in specific geographic areas identified by State and U.S. EPA Underground Injection Control program, for the states of Colorado, Montana, South Dakota, and all of Indian Country throughout EPA Region 8, U.S. EPA today is proposing to phase out the operation of these disposal systems on a state- and Indian Country-wide basis. If U.S. EPA implements this proposal, owners/operators, regardless of facility location, would have to demonstrate that their waste stream meets stringent federal drinking water standards as part of a permit application process OR cease discharging into the ground no later than January 1, 2007.

**Clean Water Action Plan - Restoring and Protecting Americas Waters.** Report. 1998. Office of Ground Water and Drinking Water, EPA 840-B-00-001; EPA Developed/Funded: Yes. Available at: <http://www.cleanwater.gov/action/>. Audience: General Public, *Topics covered:* Media Information on Source Water Protection, Clean Water Act/Safe Drinking Water Act Integration.

Vice President Gore directed federal agencies to develop an action plan for clean water on the 25th anniversary of the 1972 Clean Water Act. This document represents the culmination of these efforts.

## SECURITY

### *Technical Materials*

None.

### *Outreach Materials*

**Use of the Drinking Water State Revolving Fund (DWSRF) to Implement Security Measures at Public Water Systems.** Fact Sheet. 2001. Office of Ground Water and Drinking Water, EPA 816-F-02-040; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/dwsrf/security-fs.pdf>. Audience: U.S. EPA Regions, States, Tribes. *Topics covered:* Funding Source Water Protection, Security.

This fact sheet discusses the types of projects that may be funded through the Drinking Water State Revolving Fund and that will help water systems ensure protection of their facilities. By working with states and Drinking Water State Revolving Fund programs, water systems will receive assistance in identifying their vulnerability to security threats and vandalism. Once the threats are identified, water systems may take steps to ensure protection of the public health of their customers.

### *Programmatic Guidance*

**Source Water Information in Consumer Confidence Reports - EPA Guidance: State Implementation Guidance for the CCR Rule.** Web page. 2001. Office of Ground Water and Drinking Water, EPA 816-R-99-088; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/protect/ccrappx.pdf>. Audience: Water Suppliers, States. *Topics covered:* Source Water Assessment Program, Security.

This document provides guidance for States on implementation of the CCR rule, information on Source Water Assessment Programs (SWAPs) and Susceptibility Determinations, and provides more detailed information on State SWAP programs, wellhead protection programs and other source water information resources.

## FUNDING

*Includes the following topics: Source Water Assessment Funding, Source Water Protection Funding, Wellhead Protection Funding*

### *Technical Materials*

None.

## *Outreach Materials*

**Consider the Source: A Pocket Guide to Protecting Your Drinking Water: Drinking Water Pocket Guide #3.** Guide. 2002. Office of Ground Water and Drinking Water, EPA 816-K-02-002; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Business, Local Officials, General Public. *Topics covered:* Source Water Assessment Program, Funding Source Water Assessment, Implementing Source Water Protection, Funding Source Water Protection.

The Guide is third in a series of pocket-sized outreach and assistance publications from U.S. EPA's Office of Ground Water and Drinking Water (OGWDW) designed to heighten public awareness of the importance of protecting source waters used for drinking water. The guide includes steps towards source water protection awareness, and discusses Safe Drinking Water Act history, vocabulary, regulations, and available tools, contacts, and resources. It briefly discusses Underground Injection Control and Best Management Practice issues related to the Safe Drinking Water Act and Source Water Assessment and Protection Program.

**Using the Drinking Water State Revolving Fund for Source Water Protection Loans.** Fact Sheet. 2001. GWDW, EPA 816-F-01-039; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/dwsrf/landmanage.pdf>. Audience: U.S. EPA Regions, States, Tribes. *Topics covered:* Funding Source Water Assessment, Funding Source Water Protection, Drinking Water State Revolving Fund.

This fact sheet reviews the process by which funds are made available from the Drinking Water State Revolving Fund (DWSRF) set-asides. These funds may be used to finance a variety of local land use controls and other management tools for source water protection. States can provide loans to water systems for acquiring land or conservation easements needed to protect drinking water sources.

**The Drinking Water SRF National Information System.** Web page. 2001. Office of Ground Water and Drinking Water; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/protect/features.html>. Audience: U.S. EPA Regions, States. *Topics covered:* Funding Source Water Assessment, Funding Source Water Protection.

The Drinking Water SRF National Information Management System collects information that provide a record of progress and accountability for the program. Reports on Drinking Water State Revolving Fund activity are currently available for state fiscal years (July-June) 1997 through 2002. These reports are available in a PDF format.



**Use of the Drinking Water State Revolving Fund (DWSRF) to Implement Security Measures at Public Water Systems.** Fact Sheet. 2001. Office of Ground Water and Drinking Water, EPA 816-F-02-040; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/dwsrf/security-fs.pdf>. Audience: U.S. EPA Regions, States, Tribes. *Topics covered:* Funding Source Water Protection, Security.

This fact sheet discusses the types of projects that may be funded through the Drinking Water State Revolving Fund and that will help water systems ensure protection of their facilities. By working with states and Drinking Water State Revolving Fund programs, water systems will receive assistance in identifying their vulnerability to security threats and vandalism. Once the threats are identified, water systems may take steps to ensure protection of the public health of their customers.

**Funding Class V Injection Well Closures with the Clean Water State Revolving Fund.** Fact Sheet. 2000. Office of Ground Water and Drinking Water, EPA 832-F-00-001; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/owm/cwfinance/cwsrf/clasvwell.pdf>. Audience: Local Officials, U.S. EPA Regions, States, Tribes. *Topics covered:* Funding Wellhead Protection, Funding Source Water Protection, Explains Underground Injection Control Regulations, Clean Water Act/Safe Drinking Water Act Integration.

This fact sheet summarizes the Class V Wells Rule Requirements and describes the process for soliciting funds from the CWSRF to comply with the regulations. The information included covers how to get a project funded, who may qualify, sources of repayments, and success stories.

**Drinking Water State Revolving Funds Interim Final Rule.** Fact Sheet. 2000. Office of Ground Water and Drinking Water, EPA 816-F-00-026; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/dwsrf/rulefact.pdf>. Audience: U.S. EPA Regions, States, Tribes. *Topics covered:* Funding Source Water Assessment, Drinking Water State Revolving Fund.

This fact sheet announces the release of the interim final rule for the Drinking Water State Revolving Fund program. It also details background of the rule and program.

**Using DWSRF Set-Aside Funds for Source Water Protection.** Fact Sheet. 2000. Office of Ground Water and Drinking Water, EPA 816-F-00-013; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/dwsrf/source.pdf>. Audience: U.S. EPA Regions, States, Tribes. *Topics covered:* Funding Source Water Protection, Drinking Water State Revolving Fund.

This fact sheet reviews the process by which the Drinking Water State Revolving Fund (DWSRF) program authorizes grants to States to capitalize revolving loan



funds. States then use funds to provide loan assistance to eligible public water systems for infrastructure improvements needed to ensure safe drinking water.

**Catalog of Federal Funding Sources for Watershed Protection, 2nd Edition** Fact Sheet. 1999. Office of Ground Water and Drinking Water, EPA 841-B-99-003; EPA Developed/Funded: Yes. Available at: <http://cfpub.epa.gov/fedfund/>. Audience: Local Officials, U.S. EPA Regions, States, Tribes. *Topics covered:* Funding Source Water Protection, Watersheds and Source Water Protection.

The Catalog of Federal Funding Sources for Watershed Protection Web site is a searchable database of financial assistance sources (grants, loans, cost-sharing) available to fund a variety of watershed protection projects. The second edition of the document highlights federal grants and loans that may be used at the local level to support watershed projects, and it contains references to many other good publications and web sites on funding and technical assistance.

**Funds Available for Source Water Assessments and Protection** Fact Sheet. 1997. Office of Ground Water and Drinking Water, EPA 816-F-97-001; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Local Officials, General Public, States, Tribes. *Topics covered:* Funding Source Water Assessment, Funding Source Water Protection.

Under the 1996 Safe Drinking Water Act amendments, states may use a portion of the drinking water state revolving fund to protect both surface and underground sources of drinking water. Source water protection begins in local communities with the identification of sources of public drinking water supplies and the assessment of potential contamination threats to these supplies. Some of the Drinking Water State Revolving Fund funds can be used to fund these assessments.

**New Federal Funds for Land Acquisition and Conservation Easement.** Fact Sheet. 1997. Office of Ground Water and Drinking Water, EPA 816-F-97-010; EPA Developed/Funded: Yes. Available at: NSCEP\* and <http://www.epa.gov/safewater/dwsrf/ffland.html>. Audience: Local officials, General Public, Water Suppliers. *Topics covered:* Funding Source Water Protection.

This fact sheet explains how 1996 amendments to the Safe Drinking Water Act have made it easier for communities to purchase land or conservation easements to protect drinking water supplies.

**Benefits and Costs of Prevention: Case Studies of Community Wellhead Protection** Case Study. 1996. Office of Ground Water and Drinking Water, EPA 813-B-95-005 EPA 813-B-95-006; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Local Officials, States, Tribes. *Topics covered:* Funding Wellhead Protection.

Results of a study of the costs and benefits of wellhead protection. Two volumes provide an analysis of seven communities from around the U.S. show the wide array of activities that have already impaired or pose future threats to their ground water supply. The benefits of avoiding contamination of community drinking water sources are greater than the cost of implementing a local prevention program for wellhead protection. Results present the potential extent and range of benefits for a prevention program to protect community drinking water sources.

**Business Benefits of Wellhead Protection: Case Studies.** Case Study. 1996. Office of Ground Water and Drinking Water, EPA 813-B-95-004; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Business, Local Officials, States. *Topics covered:* Funding Wellhead Protection.

Business participation is a critical factor for three successful local wellhead and ground water protection programs in Dayton and Xenia, Ohio and Pekin, Illinois. They offer three different wellhead and ground water protection models, but show common themes for business involvement and benefits. Bottom-line benefits highlighted by several companies include: process changes that saved operating costs not previously anticipated; maintaining water quality that keep industrial water treatment costs down; and knowing the exact storage location of chemicals which keep emergency response costs down and allowed better management of existing chemical stocks. All companies indicated that being within the wellhead protection area (WHPA) caused them to be conscious of chemical use and thereby reduced liability from releases through better chemical management. Early involvement by business minimized local regulatory burden and promoted education and protective activities at the same time.

**The Clean Water State Revolving Fund: Financing America's Environmental Infrastructure -- A Report of Progress.** Report. 1995. Office of Ground Water and Drinking Water, EPA 832-R-95-001; EPA Developed/Funded: Yes. Available at: NTIS. Audience: Local Officials, U.S. EPA Regions, States, Tribes. *Topics covered:* Implementing Source Water Protection, Funding Source Water Protection, Assess Program Status, Clean Water Act/Safe Drinking Water Act Integration.

This report provides information on the accomplishments of the national Clean Water State Revolving Fund (SRF) program, the level of federal and state investment, how the program works, how communities benefit from the program, and the types of projects funded. The SRF was established under a mandate in the 1987 amendments to the Clean Water Act. Under this innovative program, states created revolving loan funds to provide independent and permanent sources of low-cost financing for a range of environmental infrastructure projects. By 1995, all fifty states and Puerto Rico had set up SRF programs.

**Compendium of Federal Financial Assistance Programs: Targeting Programs for State and Local Ground-Water Protection.** Article. 1990. Office of Ground Water and Drinking Water, EPA 440-6-90-008; EPA Developed/Funded: Yes. Available at:

<http://yosemite.epa.gov/water/owrccatalog.nsf> Audience: Local Officials, General Public, States. *Topics covered:* Funding Wellhead Protection.

This compendium was compiled for local and state ground water managers (and others). The document identifies existing federal programs that may provide financial assistance for some aspects of ground water protection.

**Funding Ground-Water Protection: A Quick Reference to Grants Available Under the Clean Water Act.** Guide. 1989. Office of Ground Water and Drinking Water, EPA 440-6-89-004; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf> Audience: Local Officials, General Public, States, Tribes. *Topics covered:* Funding Wellhead Protection, Clean Water Act/Safe Drinking Water Act Integration.

This document explains funding sources under Titles II, III, and VI of the Clean Water Act.

#### *Programmatic Guidance*

**Drinking Water: State Revolving Fund Program Guidelines.** Report. 1997. Office of Ground Water and Drinking Water, EPA 816-R-97-005; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Local Officials, U.S. EPA Regions, States, Tribes. *Topics covered:* Funding Wellhead Protection, Funding Source Water Assessment, Funding Source Water Protection.

This guidance document provides a comprehensive description of the guidelines that will apply in the operation of the DWSRF. There are chapters devoted to: development of a capitalization grant application agreement, allotment/use of funds, eligible systems and projects, state/project level authorities, funding process, and reporting/review responsibilities.

**Guidance for Future State Ground Water Protection Grants.** Program Guide. 1997. Office of Ground Water and Drinking Water, EPA 816-R-97-010; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/swp/gwpgrt.html>. Audience: U.S. EPA Regions, States. *Topics covered:* Wellhead Protection Guidelines, Funding Wellhead Protection.

This memorandum outlines the purpose and process for states to apply for EPA grant funds to supplement comprehensive state ground water protection programs. As of the date of this memo, funds had not been appropriated for these grants, but the steps U.S. EPA will take are outlined. The 1992 final comprehensive Comprehensive State Ground Water Protection Program document [100/R-93-001] is cited.

**A State and Local Government Guide to Environmental Program Funding Alternatives.** Guide. 1994. EPA Region 5, EPA 841-K-94-001; EPA

Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf>. Audience: Local Officials, General Public, States. *Topics covered:* Funding Wellhead Protection, Funding Source Water Protection, Watersheds and Source Water Protection.

This booklet provides an overview of traditional funding mechanisms and introduces state and local governments to innovative alternatives to traditional funding. Though the focus is on nonpoint source pollution, funding sources and mechanisms can be applied to any environmental program. To answer questions and provide additional information, a list of contacts and references is included.

**A Handbook for State GW Managers - Using EPA Groundwater-Related Grants to Support the Development and Implementation of CSGWPP.** Guide. 1992. Office of Ground Water and Drinking Water, EPA 813-B-92-001; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local Officials, States, Tribes. *Topics covered:* Funding Wellhead Protection.

This handbook provides a resource for state ground water managers. Topics include the following: Nonpoint Source Implementation; State Public Water System Supervision; State Underground Water Source Protection (Underground Injection Control); Water Pollution Control -- State and Interstate Program Support (106 Grants); Water Quality Management Planning; Agriculture in Concert with the Environment; Consolidated Pesticide Compliance Monitoring and Program Cooperative Agreements; Pollution Prevention Incentives for States; Hazardous Substance Response Trust Fund; Hazardous Waste Financial Assistance; Underground Storage Tank Program; Leaking Underground Storage Tank Trust Fund; State/ U.S. EPA Data Management Financial Assistance Program; Environmental Education; and Multi-Media Assistance Agreements for Indian Tribes.

**Guidance for Applicants for State Wellhead Protection Program Assistance Funds under the Safe Drinking Water Act.** Program Guide. 1987. Office of Ground Water and Drinking Water, EPA 440-6-87-011; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: States. *Topics covered:* Wellhead Protection Guidelines, Funding Wellhead Protection.

This guidance document provides procedural and technical information for applicants eligible to apply for federal grant funds to develop and implement wellhead protection programs. Complete with a glossary of terms and applicable regulations, this 50-page guide thoroughly explains U.S. EPA's policies and procedures for implementing a wellhead protection program.

**Guidance for Applicants for State Wellhead Protection Program Assistance Funds under the Safe Drinking Water Act - Appendix C: Wellhead Protection Program Applicable Regulations.** Program Guide. 1987. Office of Ground Water and Drinking Water, EPA 440-6-87-012; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local officials, Water

Suppliers, States. *Topics covered:* Wellhead Protection Guidelines, Funding Wellhead Protection.

Appendix C is a companion document to the guidance for state wellhead protection assistance fund applicants. It explains U.S. EPA regulations applicable to the wellhead protection program and provides the assistance application form needed to request a program grant. These two documents are used to develop approvable assistance applications and to properly administer the funds awarded under the wellhead protection program.

## OTHER

### *Technical Materials*

**Ground Water Quality in the United States: Report Findings.** Report. 1998. Office of Ground Water and Drinking Water, EPA 816-F-98-013; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: U.S. EPA Regions, States. *Topics covered:* Assess Program Status.

This fact sheet summarizes information found in National Water Quality Inventory: 1996 Report to Congress Groundwater Chapters.

**Watershed Tools Directory: A Collection of Watershed Tools.** Fact sheet. 1995. Office of Ground Water and Drinking Water, EPA 841-B-95-005; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/OWOW/watershed/tools/>. Audience: Local Officials, General Public, States, Tribes. *Topics covered:* Education and Training Materials, Watersheds and Source Water Protection.

The Watershed Tools Directory is a collection of 1-page summaries of tools compiled to help Stakeholders in finding tools to help them do watershed protection. The purpose of the Directory is to promote information exchange and to make Watershed tools more accessible. The directory contains approximately 200 1-page summaries that provide a brief description and contact name for the tool. Tools were collected from U.S. EPA's Headquarters, Regions, other Federal Agencies and outside organizations interested in promoting their tools.

**Technical and Economic Capacity of States and Public Water Systems to Implement Drinking Water Regulations: Report to Congress.** Report. 1993. Office of Ground Water and Drinking Water, EPA 810-R-93-001; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: U.S. EPA Regions, States, Congress. *Topics covered:* Assess Program Status, Assess Drinking Water Status.

The first two sections of this report provide background on the status of drinking water regulations, including the following: U.S. EPA's contaminant selection and regulatory processes; health effects, health benefits, and costs of current

regulations; and timetables for implementation. The next five sections focus on the capabilities of systems and states to implement drinking water regulations, including monitoring, installation and operation of treatment systems, reporting, enforcement, and data management.

**Non-Stormwater Fact Sheet: Septic Systems**. Fact Sheet. No date. Stormwater Manager's Resource Center; EPA Developed/Funded: No. Available at: [http://www.stormwatercenter.net/Assorted%20Fact%20Sheets/Tool7-Non\\_Stormwater/SepticSystems.htm](http://www.stormwatercenter.net/Assorted%20Fact%20Sheets/Tool7-Non_Stormwater/SepticSystems.htm). Audience: Homeowners. *Topics covered:* Watersheds and Source Water Protection.

This septic system management guide covers practices to prevent failing septic systems from discharging effluent with pollutant concentrations exceeding established water quality standards.

**Surf Your Watershed**. Web page. No date. U.S. EPA; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/surf/>. Audience: Local Officials, General Public. *Topics covered:* Education and Training Materials, Watersheds and Source Water Protection.

This interactive web site allows users to locate, use, and share environmental information about individual states and watersheds. It site provides links to the Adopt Your Watershed, Wetlands Restoration Projects, American Heritage Rivers Services, and SURF-Environmental Web sites and Databases.

**U.S. Geological Survey National Water Quality Assessment Program**. Report. No date. U.S. Geological Survey; EPA Developed/Funded: No. Available at: <http://water.usgs.gov/nawqa/>. Audience: General Public, U.S. EPA Regions, States, Tribes. *Topics covered:* Water Quality.

The National Water Quality Assessment Program was designed to answer these questions: What is the condition of our Nation's streams and ground water? How are these conditions changing over time? How do natural features and human activities affect these conditions? The goal is to develop long-term, consistent, and comparable information on streams, ground water, and aquatic ecosystems to support sound management and policy decisions.

### *Outreach Materials*

**Drinking Water State Revolving Funds Interim Final Rule**. Fact Sheet. 2000. Office of Ground Water and Drinking Water, EPA 816-F-00-026; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/safewater/dwsrf/rulefact.pdf>. Audience: U.S. EPA Regions, States, Tribes. *Topics covered:* Funding Source Water Assessment, Drinking Water State Revolving Fund.

This fact sheet announces the release of the interim final rule for the Drinking Water State Revolving Fund program. It also details background of the rule and program.

**Waterborne Pathogens in Agricultural Watersheds.** Report. 2000. Natural Resource Conservation Service, Water Science Institute; EPA Developed/Funded: No. Available at:

<http://www.wsi.nrcs.usda.gov/products/waterborn-pathogens.html>

Audience: Farmers, General Public. *Topics covered:* Contamination Sources, Watersheds and Source Water Protection.

This publication introduces the subject of pathogenic organisms and measures used to reduce their transport into the environment. A multiple-barrier approach is recommended. This approach includes prevention of pathogen imports to the farm, breaking the amplification cycle on the farm, proper handling of the waste stream, and control of transport from the farm. On-farm measures need to include a veterinarian or other health care provider who can target control points for pathogen introduction, amplification, and export from the farm before they get into the environment. Although pathogen-specific practices have not been developed, those practices used for waste management and to control runoff help control pathogen transport from the farm to the watershed.

**It's Your Drinking Water: Get to Know it and Protect It!** Fact Sheet. 1999. Office of Ground Water and Drinking Water, EPA 810-K-99-002; EPA Developed/Funded: Yes. Available at: NSCEP\* and <http://www.epa.gov/safewater/consumer/itsyours.pdf>. Audience: General Public. *Topics covered:* Education and Training Materials.

This short booklet provides public water system (PWS) consumers with instructions on how to locate information about the safety of their drinking water.

**Drinking Water: Pour Over the Facts.** Poster. 1999. Office of Water, EPA 810-F-99-008; EPA Developed/Funded: Yes. Available at: NSCEP\* and <http://www.epa.gov/safewater/consumer/pour4c.pdf>. Audience: General Public. *Topics covered:* Education and Training Materials.

A poster informing the public of a new report available from water suppliers with information regarding water source and content. EPA's Safe Drinking Water Hotline phone number and web site supplied.

**Now it Comes with a List of Ingredients.** Poster. 1999. Office of Water, EPA 810-F-99-007; EPA Developed/Funded: Yes. Available at: NSCEP\* and <http://www.epa.gov/safewater/consumer/now4c.pdf>. Audience: General Public. *Topics covered:* Education and Training Materials.



A poster informing the public of a new report arriving from water suppliers with information regarding water source, content, and safety. EPA's Safe Drinking Water Hotline phone number and web site supplied.

**Getting Involved in Protecting Your Community's Source of Drinking Water.** Fact Sheet. 1997. Office of Ground Water and Drinking Water, EPA 816-F-97-009; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: General Public. *Topics covered:* Public Participation.

This fact sheet describes the purpose of EPA's source water assessment program and opportunities for public participation in the program.

**Top Ten Watershed Lessons Learned.** Report. 1997. Office of Ground Water and Drinking Water, EPA 840-F-97-001; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/owow/lessons/top10.pdf>. Audience: Local Officials, General Public, States, Tribes. *Topics covered:* Watersheds and Source Water Protection.

This series of Watershed Lessons Learned is an attempt to identify the top lessons and present them in one place. It will help readers learn what works and does not based on past experience. Also, it will assist people in accessing important resources and reaching helpful contacts. that exist across the nation that can help them.

**Groundwater: The Hidden Resource (Grade School Poster).** Poster. 1996. Office of Ground Water and Drinking Water, EPA 855-H-96-009; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/superfund/kids/poster.htm>. Audience: Teachers. *Topics covered:* Education and Training Materials.

The poster is part of a series on water-resources topics and are drawn in a cartoon format by the same artist. This poster depicts an unconfined or water-table aquifer. Posters are available in color or black-and-white. The reverse sides of the color posters contain educational activities: one version for children in grades 3-5 and the other with activities for children in grades 6-8.

**Groundwater: The Hidden Resource (Middle School Poster).** Poster. 1996. Office of Ground Water and Drinking Water, EPA 855-H-96-010; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/superfund/kids/poster.htm>. Audience: Teachers. *Topics covered:* Education and Training Materials.

The poster is part of a series on water-resources topics and are drawn in a cartoon format by the same artist. This poster depicts an unconfined or water-table aquifer. Posters are available in color or black-and-white. The reverse sides of the color posters contain educational activities: one version for children in grades 3-5 and the other with activities for children in grades 6-8.

**Groundwater and Land Use in the Water Cycle.** Poster. 1995. U.S. EPA, EPA 813-H-95-002; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: General Public. *Topics covered:* Education and Training Materials.

This poster depicts the water cycle from precipitation to surface water to ground water.

**Making Waves: How to Put on a Water Festival.** Guide. 1993. GWF; EPA Developed/Funded: No. Available at: [http://www.groundwater.org/Catalog/Cat\\_MW.htm](http://www.groundwater.org/Catalog/Cat_MW.htm). Audience: Local Officials, General Public. *Topics covered:* Public Participation, Education and Training Materials.

"Making Waves" is an excellent resource for coordinating a water festival for your entire community. It offers sample fundraising letters and news releases, as well as several other tips for organizing a successful water education event for the whole family.

**Safety on Tap: A Citizen's Drinking Water Guide.** Guide. 1987. LWV; EPA Developed/Funded: Yes. Available at: \$7.95 from League of Women Voters, 1730 M Street, NW, Washington, DC 20036. (202) 429-1965. Audience: Local officials, General Public. *Topics covered:* Education and Training Materials.

This report, published by the League of Women Voters, addresses the quality of drinking water in the U.S. It contains chapters on sources of contamination; treatment processes; the Safe Drinking Water Act; federal, state and local responsibilities; treatment alternatives; water quality issues; and a guide to citizen action.

**Protecting Ground Water - The Hidden Resource.** Article. 1984. Office of Ground Water and Drinking Water, EPA 440-6-84-001; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local Officials, General Public, Tribes. *Topics covered:* Education and Training Materials.

This booklet is a collection of a dozen articles focusing on ground water issues. The articles reflect a broad diversity of contributing authors and include EPA's Ground Water Protection Strategy: a State/EPA Partnership, from the State's Point of View; Sources of Ground Water Contamination; and the Future of the Ground Water Resources.

**Science in Your Watershed.** Web page. No date. U.S. Geological Survey, EPA Developed/Funded: No. Available at: <http://water.usgs.gov/wsc/>. Audience: Local Officials, General Public, *Topics covered:* Education and Training Materials, Watersheds and Source Water Protection.

This web site provides scientific information organized on a watershed basis. This information, coupled with observations and measurements made by the watershed

groups, provides a powerful foundation for characterizing, assessing, analyzing, and maintaining the status and health of a watershed.

**Know Your Watershed.** Guide. No date. Conservation Technology Information Center; EPA Developed/Funded: No. Available at: <http://www.ctic.purdue.edu/KYW/>. Audience: Local Officials, General Public, Tribes. *Topics covered:* Education and Training Materials, Watersheds and Source Water Protection.

This web site is an information clearinghouse for watershed coordinators to help assure measurable progress toward local goals. The site contains links to documents, outreach and educational programs, watershed organizations, information networks, and other resources.

**Pesticides in Ground Water.** Fact Sheet. No date. U.S. Geological Survey, National Water Quality Assessment Pesticide National Synthesis Project; EPA Developed/Funded: No. Available at: <http://ca.water.usgs.gov/pnsp/gw/>. Audience: Local Officials, General Public. *Topics covered:* Contamination Sources, Education and Training Materials.

This report summarizes a comprehensive analysis of existing information on national and regional patterns of pesticides in the atmosphere and major influences on their sources and transport. It is one of a four-part series that synthesizes current knowledge and understanding of pesticides in the nation's water resources. This is part of the National Water Quality Assessment.

**Your Drinking Water: Pesticides.** Article. No date. Univ. Georgia College of Agricultural and Environmental Sciences Cooperative Extension Service; EPA Developed/Funded: No. Available at: <http://www.ces.uga.edu/pubcd/C819-6W.html>. Audience: General Public. *Topics covered:* Contamination Sources, Education and Training Materials, Pesticides Program.

This fact sheet provides tips for the public about the pesticides in drinking water. Topics include: reducing risk; checking drinking water for pesticides; and steps to take if your water contains pesticides.

**Frequently Asked Questions about UST and AST Systems.** Web page. No date. South Dakota Department of Environmental and Natural Resources, Ground Water Quality Program; EPA Developed/Funded: No. Available at: <http://www.state.sd.us/denr/DES/Ground/tanks/FAQTANK.htm>. Audience: Business, General Public. *Topics covered:* Contamination Sources, Underground and Above ground Storage Tanks.

This fact sheet covers in Q&A format basic information on Underground and Above ground Storage Tanks (USTs and ASTs).

**National Water Quality Inventory Report to Congress (305(b) Report).** Report. 1992, 1994, 1996, 1998, 2000 (biennial report). U.S. EPA, EPA Developed/Funded:

Yes. Available at: <http://www.epa.gov/305b/>. Audience: General Public, Congress.  
*Topics covered:* Water Quality Information.

This is a biennial report that is the primary vehicle for informing Congress and the public about general water quality conditions in the United States. It characterizes water quality, identifies widespread water quality problems of national significance, and describes various programs implemented to restore and protect our waters.

### *Programmatic Guidance*

**A Review of Statewide Watershed Management Approaches.** Report. 2002. Office of Water; EPA Developed/Funded: Yes. Available at: [http://www.epa.gov/owow/watershed/approaches\\_fr.pdf](http://www.epa.gov/owow/watershed/approaches_fr.pdf). Audience: U.S. EPA Regions, States. *Topics covered:* Watersheds and Source Water Protection.

This document summarizes the review conducted jointly by EPA's Office of Wastewater Management (OWM) and the Office of Wetlands, Oceans, and Watersheds (OWOW) of selected state experiences in adopting and implementing statewide watershed management approaches. The objectives of the review were threefold: (1) identify and describe the different models of statewide watershed management; (2) characterize and assess the experiences of selected states using different models for statewide watershed management; and, (3) develop recommendations to improve EPA's support and states' implementation of statewide watershed management.

**Above Ground Storage Tank Systems.** Guide. 2000. Minnesota Pollution Control Agency; EPA Developed/Funded: No. Available at: <http://www.pca.state.mn.us/cleanup/ast.html>. Audience: Business, Local Officials, General Public. *Topics covered:* Contamination Sources, Watersheds and Source Water Protection.

The Above ground Storage Tank Program passed new rules in November 1998. These rules focus on prevention of spills and leaks, rather than containing spills and leaks. These rules give storage tank owners various options to prevent spills and leaks from occurring. These rules also provide the general requirements for facilities depending on their size.

**Uncovered Finished Water Reservoirs Guidance Manual.** Guide. 1999. U.S. EPA, EPA-815-R-99-011; EPA Developed/Funded: Yes. Available at: NSCEP\*. Audience: Local Officials, Water Suppliers. *Topics covered:* Watersheds and Source Water Protection, Reservoirs.

The purpose of this document is to provide a basic understanding of the potential sources of external contamination in uncovered finished water reservoirs and to provide guidance to water treatment operators for evaluating and maintaining

water quality in these reservoirs. This document discusses: existing regulations and policies pertaining to uncovered reservoirs; developing a reservoir management plan; potential sources of water quality degradation and contamination; operation and maintenance of reservoirs to maintain water quality; and mitigating potential water quality degradation.

**Watershed Approach Framework.** Report. 1996. Office of Ground Water and Drinking Water, EPA 840-R-96-001; EPA Developed/Funded: Yes. Available at: <http://yosemite.epa.gov/water/owrccatalog.nsf/>. Audience: Local Officials, General Public, U.S. EPA Regions, States, Tribes. *Topics covered:* Watersheds and Source Water Protection.

This publication explains EPA's vision for watershed approaches and builds upon the office of water watershed protection approach framework (endorsed by EPA in 1991). It emphasizes the role EPA envisions for states and tribes. It also reflects the high priority that individual OW programs have put on developing and supporting comprehensive state and Tribal watershed approach strategies that actively involve public and private interest at all levels to achieve environmental protection.

**Watershed Protection: A Project Focus.** Report. 1995. Office of Ground Water and Drinking Water, EPA 841-R-95-003; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/cgi-bin/claritgw?op-Display&document=clserv:OW:1276;&rank=4&template=epa>. Audience: Local Officials, U.S. EPA Regions, States, Tribes. *Topics covered:* Watersheds and Source Water Protection.

This document provides a blueprint for designing and implementing watershed projects including references and case studies for specific elements of the process. It illustrates how the broader principles of watershed management--including all relevant federal, state, Tribal, local and private activities-- can be brought to bear on water quality and ecological concerns.

**Watershed Protection: A State-Wide Approach.** Report. 1995. Office of Ground Water and Drinking Water, EPA 841-R-95-004; EPA Developed/Funded: Yes. Available at: <http://www.epa.gov/owow/watershed/state/index.html>. Audience: Local Officials, U.S. EPA Regions, States, Tribes. *Topics covered:* Watersheds and Source Water Protection.

The Watershed Protection Approach is a strategy for effectively protecting and restoring aquatic ecosystems and protecting human health. This strategy has as its premise that many water quality and ecosystem problems are best solved at the watershed level rather than at the individual waterbody or discharger level. The Watershed Protection Approach has four major features: targeting priority problems, a high level of stakeholder involvement, integrated solutions that make use of the expertise and authority of multiple agencies, and measuring success

through monitoring and other data gathering. A statewide watershed approach, as described in this document, is an approach to managing water quality by major hydrologic units.